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ABSTRACT

Inventory data on the physical facilities of Ontario universities are presented for 1983-1984. The first table provides a summary of all net assignable square meters (NASM), by institution, for categories of space covered by the Council of Universities (COU) space standards and for categories of space to which the standards do not apply. Additional tables include: a detailed breakdown of all NASM, by institution, for each of the 20 space categories defined by the Subcommittee on Space Coding; a distribution of NASM by building age and excluding rentals; institutional space requirements as measured by COU revised space standards by comparison to actual inventory; analyses of space generated and inventoried by space type; space inventoried/space generated ratio for all space types; and space generated and space inventories per full-time-equivalent student. For each university, the tables on COU space standards and institutional space requirements cover input measures, space factors, space generated, and inventory for the various space categories (e.g., classrooms, class labs, research areas, academic office, administrative office, library, and athletic space). Graphs are included. (SW)

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INVENTORY OF PHYSICAL FACILITIES OF ONTARIO UNIVERSITIES 1983-84

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of the
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Conseil des Universites de l'Ontario
130 St. George Street, Suite 8039
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Introduction

In 1971 the Council of Ontario Universities (COU) established a number of task forces to examine questions relating to capital funding and the utilization of physical facilities within the Ontario universities. One of these task forces, the Task Force - Space and Utilization, was charged with developing and testing a space and utilization guide. In 1972 this task force published its findings in Volume 1 of the Building Blocks series of reports. At the time of publishing, however, the task force had not received comments from all of the universities and had been unable to revise its space and utilization guidelines where necessary. Accordingly, in November 1972 the COU Committee on Capital Financing established a standing subcommittee, the Subcommittee on Revisions to Building Blocks, to continue the work of its earlier task forces. Revised space standards developed by the subcommittee were adopted by COU at its meeting of 11 March 1977. A summary report of the work of the subcommittee was released in December 1978 as Volume 6 of the Building Blocks series. A COU subcommittee will be using the 1983-84 data in an evaluation of the existing guidelines for class and research laboratory space. Increased use of computers, for example, has changed the space requirements for both teaching and research in a number of disciplines. The guideline review committee may also identify other areas where revisions are needed.

Included in Volume 6 of Building Blocks was an updated inventory of physical facilities of Ontario universities as of 1 November 1977. As COU had agreed that updated inventory data should be collected on a triennial basis, the present report contains data for 1983-84. The

following tables present inventory data as of 1 November 1983 based on institutional submissions received in Spring 1984.

Table 1 is a summary of all net assignable square metres (NASM), by institution, for categories of space covered by COU space standards (categories 1 - 15) and for categories of space to which the standards do not apply (categories 17 - 20). The column labelled "Scheduled for Demolition" provides an indication of the NASM reported in categories 1-15 which institutions are presently planning to demolish. The column labelled "Privately Funded" includes NASM (categories 1 - 15) for construction which has been privately funded and for space constructed prior to November 1971 which was not included in the "allocation inventory" that constituted a factor in the interim capital formula. The column labelled "NASM Rentals" reflects the space reported in categories 1 - 15 which was being rented as of November, 1983. The rental costs associated with this space, for the 1983-84 fiscal year are reported in the column "Rental Costs".

Table 2 presents a detailed breakdown of all NASM, by institution, for each of the 20 space categories defined by the Sub-Committee on Space Coding.

Figure 1 shows these categories in graphic form.

Table 3 presents a distribution of NASM (categories 1 - 15) by age and excluding rentals. Age was determined according to the year of completion of a building cited or the year of major renovation. The final column, "Average Age" is a weighted average.

Figure 2 is a graph of NASM by single year of age.

Tables 4 - 25 present institutional space requirements as measured by COU revised space standards by comparison to actual inventory. It should be noted that the data in these and all subsequent tables includes space scheduled for demolition, privately funded space and rentals. Further, no provision for age or quality has been made.

Tables 26 - 36 provide analyses of space generated and inventoried by space type.

Figure 3 shows the space inventoried/space generated ratio for all space types.

Table 36 summarizes space generated and space inventoried per FTE student.

Note: Data for OISE (Tables 1,2 and 3 only) and for Algoma and Nipissing appear in this report for the first time. It should be noted that COU space standards were originally intended for application to multi-disciplinary institutions. Their application to Algoma, Nipissing, OISE (and to OCA) may not therefore be entirely appropriate. COU is in the process of examining the guidelines for laboratory space, and may also need to consider modifications in the guidelines for specialized institutions.

Table 1

INVENTORY OF UNIVERSITY SPACE, November 1, 1983

	NASM Categories 1-15	NASM Categories 17-20	Scheduled for Demolition	Privately Funded	NASM Rentals	Rental Costs
Brock	42,863	7,041		705		
Carleton	102,498	21,633				
Guelph	136,503	86,023	15,116	3,488		
Lakehead	44,594	9,594				
Laurentian						
Laurentian	40,688	1,742				
Algoma	3,561	929				
Nipissing	5,874					
Hearst*						
McMaster	122,164	107,456			368	28,380
Ottawa	140,483	29,582	3,837	1,102	2,996	83,890
Queen's	174,615	88,571		26,964		
Toronto						
St. George	370,280	54,635	14,857	26,097	5,234	554,444
Erindale	37,777	8,886				
Scarborough	32,547	6,871				
Trent	30,012	43,078				
Waterloo	151,401	77,557		3,460	2,667	243,005
Western	208,929	59,867				
WLU	34,058	11,560	1,279	4,996	742	66,631
Windsor	97,057	24,544		10,403	565	19,850
York						
York	140,817	65,531		410		
Glendon	14,673	7,502				
OCA	11,830	2,947				
OISE	26,515	4,273				
Ryerson	89,398	1,403				
Total	2,059,137	721,225	35,089	77,625	12,572	996,200

* Not available.

Table 2

DISTRIBUTION OF NASH BY MAJOR SPACE CATEGORY AND INSTITUTION, 1983-84

	Classroom Facilities	Lab - Undergrad.	Lab - Grad. & Faculty	Instruction Office & Related	Library & Study Facilities	Recreation/ Athletic Space	Food Service	Bookstore & Other Merch. Facilities	Plant Maintenance	Admin. Office & Related	Audio-Visual Television Facilities	Central Services
Brock	5,939	4,484	3,493	6,042	3,978	7,219	1,606	497	1,065	2,296	376	1,604
Carleton	12,049	17,767	7,677	19,439	10,558	8,356	6,504	1,829	1,670	7,971	935	1,988
Guelph	11,088	28,157	20,193	17,636	12,314	7,911	6,602	2,093	3,017	13,628	958	3,995
Lakehead	4,872	9,595	2,763	4,682	5,547	5,521	2,445	528	783	2,716	156	1,123
Laurentian												
Laurentian	5,662	5,379	1,731	5,138	6,231	6,318	2,908	508	655	2,661	536	987
Algoma	866	424		391	858		125	84	58	297	73	
Nipissing	1,810	314		942	969	711	377		286	204	89	
Hearst *												
McMaster	11,524	16,984	21,905	15,775	16,419	9,027	5,258	1,519	3,559	8,986	347	3,476
Ottawa	14,977	16,927	17,123	29,882	17,816	8,462	3,479	2,355	1,058	12,998	1,162	2,638
Queen's	16,439	32,268	22,003	29,105	22,901	12,888	7,081	3,159	2,782	10,991	229	2,373
Toronto												
St. George	32,654	49,767	67,380	67,784	58,273	26,278	9,787	2,485	5,152	25,521	1,737	3,297
Erindale	4,488	5,551	5,949	4,392	4,924	2,396	2,287	480	571	1,931	205	1,197
Scarborough	3,336	6,574	3,153	4,164	2,715	3,837	1,574	360	2,228	1,765	481	469
Trent	2,373	3,517	2,500	3,690	5,459	3,413	3,452	75	341	2,460	228	327
Waterloo	14,373	24,622	27,031	24,980	13,440	8,594	7,787	2,063	4,664	10,373	560	4,735
Western	21,536	33,975	26,655	30,837	25,625	13,475	10,736	4,331	2,208	13,358	596	5,360
WLU	5,331	2,370	974	4,272	4,989	4,513	1,834	625	1,002	3,000	267	974
Windsor	9,886	17,836	8,240	15,072	14,187	12,606	3,285	1,180	1,674	4,305	1,869	1,140
York												
York	19,361	15,341	11,107	28,925	20,777	7,336	7,218	3,258	1,114	13,124	1,016	2,443
Glendon	1,817	783	229	2,246	2,082	3,242	1,243	502	290	827	31	182
OCA	883	7,405		873	508		227	123	89	603	63	64
OISE	3,463		304	9,166	4,630		839	376	475	2,450	580	2,497
Ryerson	11,170	31,994		10,207	8,779	3,365	3,903	676	2,323	6,872	1,689	2,570
Total	215,897	332,034	250,410	335,637	264,178	155,306	90,557	29,104	37,064	149,336	14,182	43,435

*Not available

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Table 2

	Health Service Facilities	Common Use & Student Activity Space	Assembly & Exhibition Facilities	Sub Total Formula	Non-Assignable Space	Residential Space	Animal Space	Other	Health Science Clinical Facilities	Sub Total Non-Formula	Total
Brock	63	1,655	2,548	42,864	39,757	6,768		273		46,798	89,662
Carleton	511	4,123	1,132	102,509	66,195	21,309		324		87,828	190,337
Guelph	389	5,622	2,900	136,503	117,262	74,345	5,708	2,078	3,892	203,285	339,788
Lakehead	65	2,020	1,777	44,593	31,734	9,595		275		41,604	86,197
Laurentian											
Laurentian	67	474	1,434	40,689							40,689
Algoma		218	167	3,561	929					929	4,490
Nipissing	12	163		5,874	2,207					2,207	8,081
Hearst *											
McMaster	222	5,602	1,561	122,164	6,874	37,562		366	28,011	72,813	194,977
Ottawa	350	6,742	4,476	140,483	91,078	23,677	946	10,161	3,579	129,441	269,924
Queen's	661	7,550	4,188	174,615	117,335	72,923	1,700	6,484	9,266	207,707	382,322
Toronto											
St. George	610	11,153	8,402	370,280	242,534	33,537		13,537	7,561	297,169	667,449
Erindale	113	2,133	1,160	37,777	26,987	8,557		329		35,873	73,650
Scarborough	84	1,535	272	32,547	20,295	4,924		1,947		27,166	59,713
Trent	85	1,946	146	30,012	25,114	17,459	326	179		43,078	73,090
Waterloo	623	4,575	2,782	151,401	86,849	99,481		1,749	925	189,004	340,405
Western	589	14,094	5,545	208,920	115,958	57,079	2,439	325		175,801	384,721
WLU	168	2,455	1,284	34,058	20,080	11,289		271		31,640	65,698
Windsor	187	4,431	1,359	97,057	46,914	24,270		275		70,558	167,615
York											
York	108	7,519	2,168	140,817	97,323	65,531		769		163,622	304,439
Glendon	92	828	280	14,673	11,230	7,502		187		18,919	33,592
OCA	30	267	699	11,830	2,947					2,947	14,777
OISE	44	884	807	26,515	7,391			235		7,626	34,141
Ryerson	158	3,481	2,210	89,398	14,560			1,939		16,499	105,897
Total	5,231	89,472	47,298	2,059,140	1,190,652	575,808	11,118	41,701	53,233	1,872,513	3,931,653

*Not available

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Figure 1
DISTRIBUTION OF NASM
BY MAJOR SPACE CATEGORIES (1–15)
1983–84

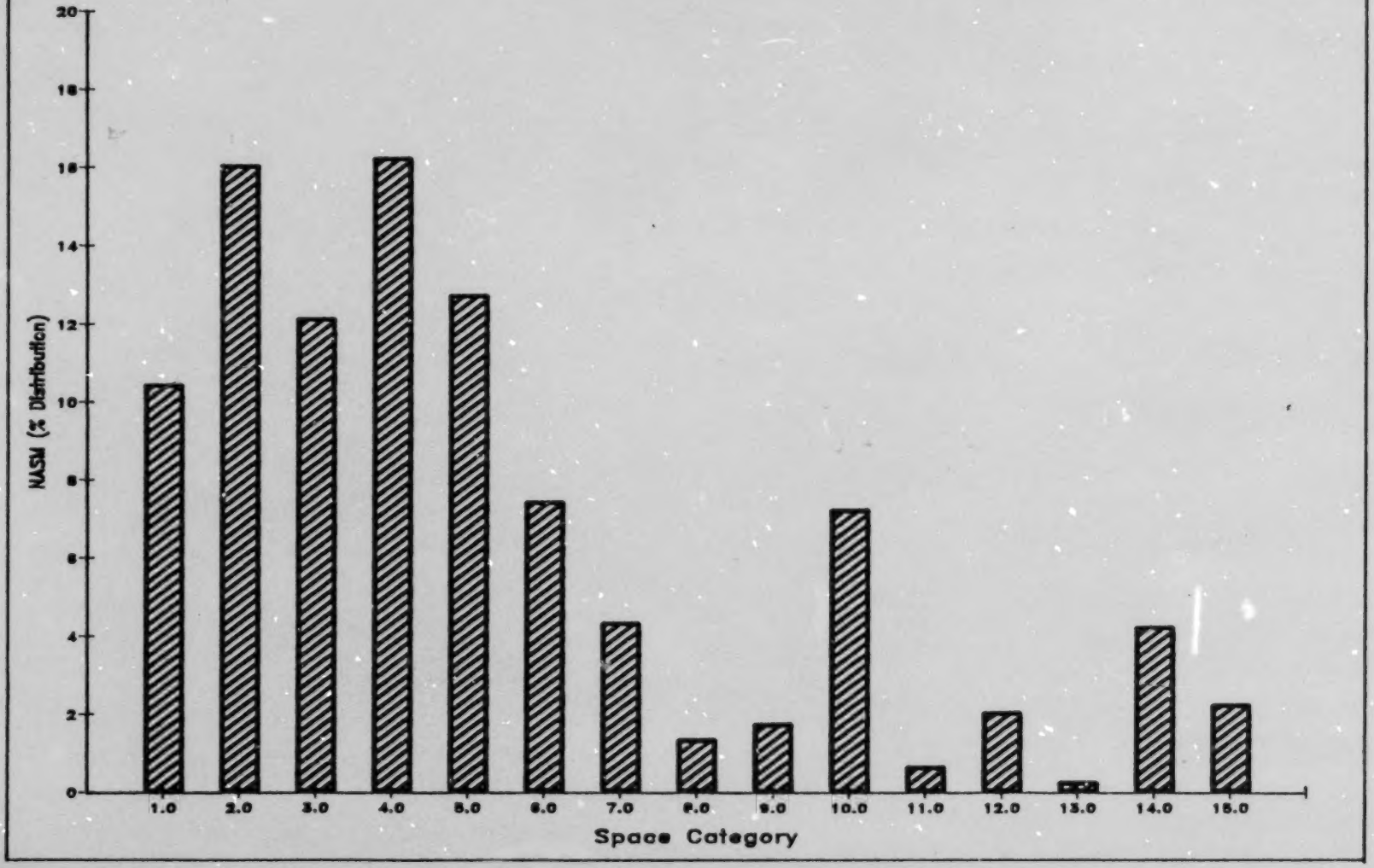

Table 3

AGE PROFILE OF ONTARIO UNIVERSITY SPACE
(as of 1 November, 1983)*

	NASM 0-9 Years	NASM 10-19 Years	NASM 20-29 Years	NASM 30-39 Years	NASM 40-49 Years	NASM 50+ Years	Total NASM	Average Age
Brock	3,599	38,813	248		203		42,863	11.69
Carleton		74,760	27,738				102,498	16.46
Guelph	21,609	63,824	24,779	4,930	142	21,219	136,503	24.40
Lakehead		33,546	11,049				44,594	16.07
Laurentian								
Laurentian	85	40,603					40,688	14.73
Algoma		600				2,961	3,561	46.26
Nipissing		5,874					5,874	11.00
Hearst**								
McMaster	8,526	76,933	29,499	4,664	1,625	550	121,797	17.54
Ottawa	21,494	65,114	19,083			31,797	137,488	25.57
Queen's	46,659	93,807	22,187	4,673		7,289	174,615	15.78
Toronto								
St. George	94,568	118,143	66,282	13,590		72,463	365,046	25.99
Erindale	1,161	36,616					37,777	12.29
Scarborough	11,495	20,871	181				32,547	12.23
Trent	8,216	19,748		155		1,893	30,012	17.95
Waterloo	10,468	106,773	31,493				148,734	16.01
Western	6,388	126,587	50,066	25,888			208,929	19.19
WLU	4,890	19,059	7,406	1,961			33,316	14.19
Windsor	11,957	51,420	25,924	3,314		3,877	96,492	18.28
York								
York	410	140,407					140,817	14.42
Glendon		6,371	7,178			1,124	14,673	22.97
OCA	2,331	9,499					11,830	13.77
OISE		26,515					26,515	13.00
Ryerson	22,490	36,427	30,482				89,399	15.05
Total	276,346	1,212,310	353,595	59,175	1,970	143,173	2,046,569	19.16

* Excludes rentals.
** Not available.

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Figure 2

AGE PROFILE OF ONTARIO UNIVERSITY SPACE
BY SINGLE YEAR OF AGE
(as of 1 November, 1983)

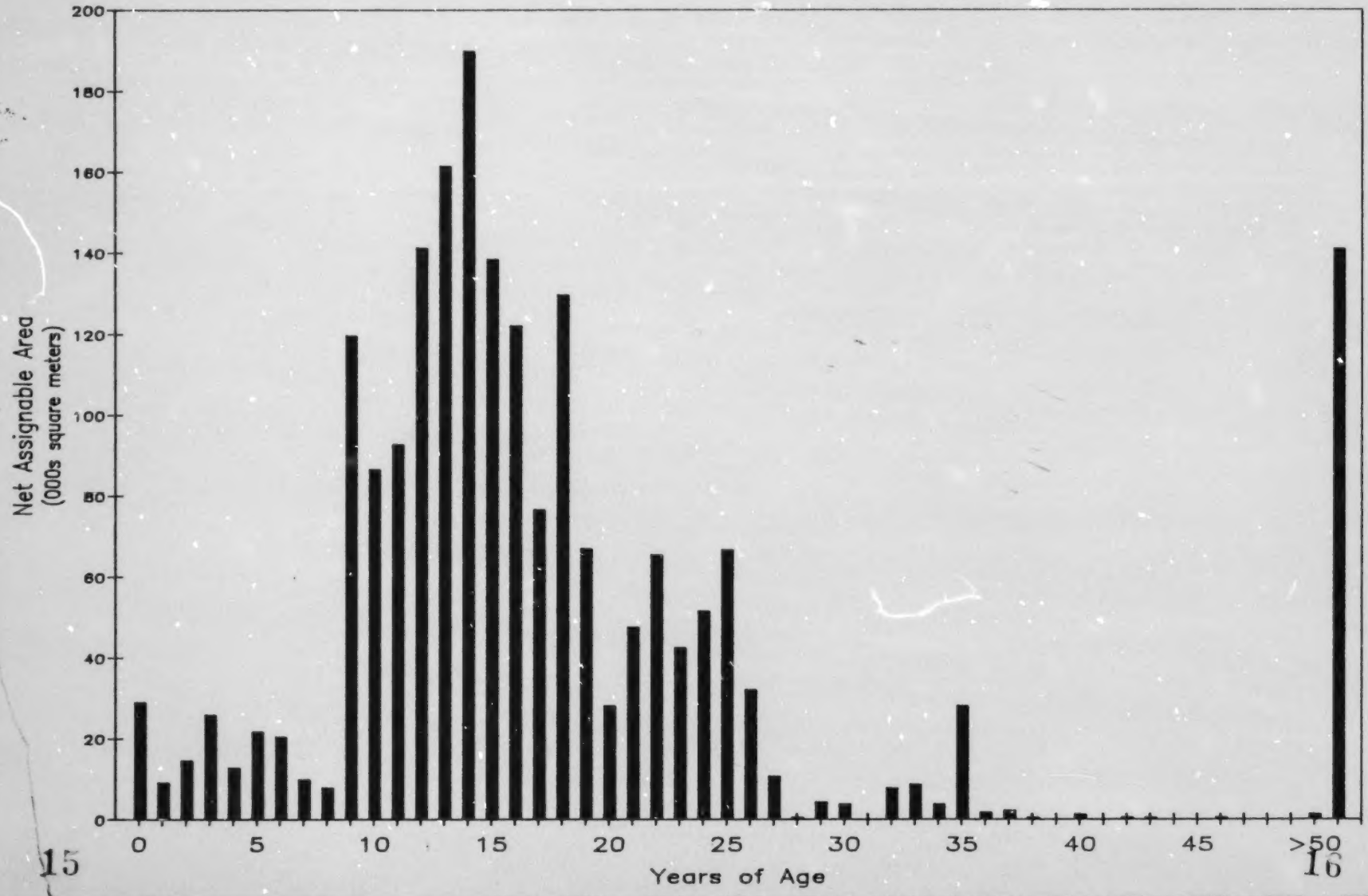

Table 4

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

BROCK

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		4,730.55	1.208	5,715.35	5,939.29	103.9
CLASS LABS						
Lab Hours	W		0.790			
Lab Hours	X	3,338.00	0.604	2,016.45		
Lab Hours	Y	2,248.00	0.465	1,044.61		
Lab Hours	Z	3,626.00	0.279	1,010.97		
Total		9,212.00	0.442	4,072.03	4,483.97	110.1
RESEARCH						
FTE Faculty	A	65.05	46.468	3,022.77		
+ 1/2 Grads	B		32.528			
	C	20.86	18.587	387.73		
	D	24.41	6.970	170.14		
	E	203.80				
Total		314.12	11.399	3,580.65	3,492.92	97.5
ACADEMIC OFFICE						
FTE Faculty		291.42	19.517	5,687.57	5,355.31	
FTE Grads		212.80	3.717	791.08	686.32	
Total				6,478.64	6,041.63	93.3
ADMIN OFFICE						
FTE Students		4,730.55	0.836	3,956.78	2,295.96	58.0
LIBRARY						
Stack FTE Volumes		300,000.00	0.007	2,230.48		
		180,727.00	0.007	1,175.73		
			0.006			
Sub-Total		480,727.00	0.007	3,406.22	2,385.87	
Study FTE U/Grads		3,990.55	0.465	1,854.34		
Prof U/Grads		527.20	1.115	587.96		
FTE Grads		212.80	0.743	158.22		
Sub-Total		4,730.55	0.550	2,600.52	1,079.97	
Service (Stack & Study)		6,006.73	0.250	1,501.68	511.71	
Total				7,508.42	3,977.54	53.0
ATHLETICS						
Basic				1,858.74		
FTE Students		4,730.55	0.743	3,517.14		
Total		4,730.55	1.136	5,375.87	7,219.02	134.3
GENERAL USE						
FTE Students		4,730.55	1.626	7,693.74	6,305.71	82.0
SPECIAL USE						
FTE Students		4,730.55	0.558	2,637.85	3,108.04	117.8
TOTAL		4,730.55	9.940	47,019.32	42,864.07	91.2

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Table 5

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

CARLETON

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		11,327.79	1.208	13,685.99	12,048.90	88.0
CLASS LABS						
Lab Hours	W	9,502.00	0.790	7,506.23	4,248.45	
Lab Hours	X	11,527.00	0.604	6,963.34	7,752.64	
Lab Hours	Y	4,253.00	0.465	1,976.30	3,629.14	
Lab Hours	Z	2,929.50	0.279	816.78	2,137.14	
Total		28,211.50	0.612	17,262.64	17,767.37	102.9
RESEARCH						
FTE Faculty	A	141.50	46.468	6,575.28	4,312.88	
+ 1/2 Grads	B	150.90	32.528	4,908.46	1,658.43	
	C	78.80	18.587	1,464.68	1,089.44	
	D	45.40	6.970	316.45	392.76	
	E	808.80			223.01	
Total		1,225.40	10.825	13,264.87	7,676.52	57.9
ACADEMIC OFFICE						
FTE Faculty		596.20	19.517	11,674.91	15,018.76	
FTE Grads		1,254.40	3.717	4,663.20	4,420.48	
Total				16,338.10	19,439.24	119.0
ADMIN OFFICE						
FTE Students		11,327.79	0.836	9,474.91	7,970.85	84.1
LIBRARY						
Stack FTE Volumes		300,000.00	0.007	2,230.48		
		300,000.00	0.007	1,951.67		
		883,750.00	0.006	4,927.97		
Sub-Total		1,483,750.00	0.006	9,110.13	5,015.33	
Study FTE U/Grads		10,073.39	0.465	4,680.94		
Prof U/Grads			1.115			
FTE Grads		1,254.40	0.743	932.64		
Sub-Total		11,327.79	0.496	5,613.58	2,711.29	
Service (Stack & Study)		14,723.71	0.250	3,680.93	2,831.40	
Total				18,404.64	10,558.02	57.4
ATHLETICS						
Basic				1,858.74		
FTE Students		11,327.79	0.743	8,422.15		
Total		11,327.79	0.908	10,280.88	8,355.94	81.3
GENERAL USE						
FTE Students		11,327.79	1.626	18,423.44	13,587.98	73.8
SPECIAL USE						
FTE Students		11,327.79	0.558	6,316.61	5,104.20	80.8
TOTAL		11,327.79	10.898	123,452.09	102,509.02	83.0

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Table 6

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

GUELPH

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		10,697.15	1.208	12,924.07	11,[illegible]3.00	85.8
CLASS LABS						
Lab Hours	W	18,631.00	0.790	14,717.80	9,917.00	
Lab Hours	X	20,396.00	0.604	12,321.00	7,569.00	
Lab Hours	Y	19,911.00	0.46[illegible]	9,252.32	8,942.00	
Lab Hours	Z	7,401.00	0.27[illegible]	2,063.48	1,729.00	
Total		66,339.00	0.578	38,354.60	28,157.00	73.4
RESEARCH						
FTE Faculty	A	623.99	46.468	28,995.82	15,807.00	
+ 1/2 Grads	B	25.19	32.528	819.38	756.00	
	C	54.39	18.587	1,010.97	544.00	
	D	179.68	6.970	1,252.42	2,820.00	
	E	311.49			266.00	
Total		1,194.74	26.850	32,078.58	20,193.00	62.9
ACADEMIC OFFICE						
FTE Faculty		769.95	19.517	15,026.91	14,807.00	
FTE Grads		932.60	3.717	3,466.91	2,829.00	
Total				18,493.82	17,636.00	95.4
ADMIN OFFICE						
FTE Students		10,697.15	0.836	8,947.43	13,628.00	152.3
LIBRARY						
Stack FTE Volumes		300,000.00	0.007	2,230.48		
		300,000.00	0.007	1,951.67		
		1,462,192.00	0.006	8,153.49		
Sub-Total		2,062,192.00	0.006	12,335.64	5,068.00	
Study FTE U/Grads		9,181.55	0.465	4,266.52		
Prof U/Grads		583.00	1.115	650.19		
FTE Grads		932.60	0.743	693.38		
Sub-Total		10,697.15	0.524	5,610.09	4,912.00	
Service (Stack & Study)		17,945.73	0.250	4,486.43	2,334.00	
Total				22,432.16	12,314.00	54.9
ATHLETICS						
Basic				1,858.74		
FTE Students		10,697.15	0.743	7,953.27		
Total		10,697.15	0.917	9,812.01	7,911.00	80.6
GENERAL USE						
FTE Students		10,697.15	1.626	17,397.78	17,217.00	99.0
SPECIAL USE						
FTE Students		10,697.15	0.558	5,964.95	8,359.00	140.1
TOTAL		10,697.15	15.556	166,405.40	136,503.00	82.0

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Table 7

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

LAKEHEAD

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		4,004.46	1.208	4,838.10	4,872.00	100.7
CLASS LABS						
Lab Hours	W	7,387.00	0.790	5,835.46	3,685.00	
Lab Hours	X	2,705.00	0.604	1,634.06	2,904.00	
Lab Hours	Y	2,716.00	0.465	1,262.08	2,102.00	
Lab Hours	Z	4,987.00	0.279	1,390.43	904.00	
Total		17,795.00	0.569	10,122.03	9,595.00	94.8
RESEARCH						
FTE Faculty	A	42.75	46.468	1,986.52	1,907.00	
+ 1/2 Grads	B	60.55	32.528	1,969.56	216.00	
	C	26.30	18.587	488.85	408.00	
	D	33.30	6.970	232.11	232.00	
	E	151.60				
Total		314.50	14.871	4,677.04	2,763.00	59.1
ACADEMIC OFFICE						
FTE Faculty		243.00	19.517	4,742.57	4,415.00	
FTE Grads		164.10	3.717	610.04	267.00	
Total				5,352.60	4,682.00	87.5
ADMIN OFFICE						
FTE Students		4,004.46	0.836	3,349.46	2,716.00	81.1
LIBRARY						
Stack FTE Volumes		300,000.00	0.007	2,230.48		
		206,944.00	0.007	1,346.29		
			0.006			
Sub-Total		506,944.00	0.007	3,576.77	3,215.00	
Study FTE U/Grads		3,352.86	0.465	1,558.02		
Prof U/Grads		487.50	1.115	543.68		
FTE Grads		164.10	0.743	122.01		
Sub-Total		4,004.46	0.555	2,223.71	1,213.00	
Service (Stack & Study)		5,800.48	0.250	1,450.12	1,119.00	
Total				7,250.60	5,547.00	76.5
ATHLETICS						
Basic				1,858.74		
FTE Students		4,004.46	0.743	2,977.29		
Total		4,004.46	1.208	4,836.03	5,521.00	114.2
GENERAL USE						
FTE Students		4,004.46	1.626	6,512.83	6,770.00	103.9
SPECIAL USE						
FTE Students		4,004.46	0.558	2,232.97	2,125.00	95.2
TOTAL		4,004.46	12.279	49,171.66	44,592.00	90.7

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Table 8

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

LAURENTIAN

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		3,696.00	1.208	4,465.43	5,662.00	126.8
CLASS LABS						
Lab Hours	W	1,694.00	0.790	1,338.20		
Lab Hours	X	4,821.00	0.604	2,912.31		
Lab Hours	Y	2,420.00	0.465	1,124.54		
Lab Hours	Z	1,837.00	0.279	512.17		
Total		10,772.00	0.547	5,887.22	5,379.00	91.4
RESEARCH						
FTE Faculty	A	64.25	46.468	2,985.59		
+ 1/2 Grads	B	15.00	32.528	487.92		
	C	17.00	18.587	315.99		
	D	78.00	6.970	543.68		
	E	135.75				
Total		310.00	13.978	4,333.18	1,731.00	39.9
ACADEMIC OFFICE						
FTE Faculty		257.00	19.517	5,015.80	5,138.00	
FTE Grads		106.00	3.717	394.05		
Total				5,409.85	5,138.00	95.0
ADMIN OFFICE						
FTE Students		3,696.00	0.836	3,091.45	2,661.00	86.1
LIBRARY						
Stack FTE Volumes		300,000.00	0.007	2,230.48		
		300,000.00	0.007	1,951.67		
		187,231.00	0.006	1,044.04		
Sub-Total		787,231.00	0.007	5,226.20	2,961.00	
Study FTE U/Grads		1,886.00	0.465	876.39		
Prof U/Grads		1,704.00	1.115	1,900.37		
FTE Grads		106.00	0.743	78.81		
Sub-Total		3,696.00	0.773	2,855.58	1,714.00	
Service (Stack & Study)		8,081.77	0.250	2,020.44	1,556.00	
Total				10,102.21	6,231.00	61.7
ATHLETICS						
Basic				1,858.74		
FTE Students		3,696.00	0.743	2,747.96		
Total		3,696.00	1.246	4,606.69	6,318.00	137.1
GENERAL USE						
FTE Students		3,696.00	1.626	6,011.15	5,324.00	88.6
SPECIAL USE						
FTE Students		3,696.00	0.558	2,060.97	2,245.00	108.9
TOTAL		3,696.00	12.437	45,968.15	40,689.00	88.5

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Table 9

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

ALGOMA

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		272.50	1.208	329.23	866.00	263.0
CLASS LABS						
Lab Hours	W		0.790			
Lab Hours	X	105.00	0.604	63.43		
Lab Hours	Y	175.00	0.465	81.32		
Lab Hours	Z	300.00	0.279	83.64		
Total		580.00	0.394	228.39	424.00	185.6
RESEARCH						
FTE Faculty	A	1.66	46.468	77.14		
+ 1/2 Grads	B		32.528			
	C	3.00	18.587	55.76		
	D	2.00	6.970	13.94		
	E					
Total		6.66	22.048	146.84	0.00	0.0
ACADEMIC OFFICE						
FTE Faculty		33.00	19.517	644.05	391.00	
FTE Grads			3.717			
Total				644.05	391.00	60.7
ADMIN OFFICE						
FTE Students		272.50	0.836	227.93	297.00	130.3
LIBRARY						
Stack FTE Volumes		92,222.00	0.007	685.67		
			0.007			
			0.006			
Sub-Total		92,222.00	0.007	685.67		
Study FTE U/Grads		272.50	0.465	126.63		
Prof U/Grads			1.115			
FTE Grads			0.743			
Sub-Total		272.50	0.465	126.63		
Service (Stack & Study)		812.29	0.250	203.07		
Total				1,015.36	858.00	84.5
ATHLETICS						
Basic				1,858.74		
FTE Students		272.50	0.743	202.60		
Total		272.50	7.565	2,061.34	0.00	0.0
GENERAL USE						
FTE Students		272.50	1.626	443.19	594.00	134.0
SPECIAL USE						
FTE Students		272.50	0.558	151.95	131.00	86.2
TOTAL		272.50	19.260	5,248.29	3,561.00	67.9

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Table 10

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

NIPISSING

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		575.80	1.208	695.67	1,809.75	260.1
CLASS LABS						
Lab Hours	W	325.00	0.790	256.74	314.41	
Lab Hours	X		0.604			
Lab Hours	Y		0.465			
Lab Hours	Z		0.279			
Total		325.00	0.790	256.74	314.41	122.5
RESEARCH						
FTE Faculty	A		46.468			
+ 1/2 Grads	B		32.528			
	C		18.587			
	D		6.970			
	E					
Total				0.00	0.00	0.0
ACADEMIC OFFICE						
FTE Faculty		42.00	19.517	819.70	941.64	
FTE Grads			3.717			
Total				819.70	941.64	114.9
ADMIN OFFICE						
FTE Students		575.80	0.836	481.62	203.53	42.3
LIBRARY						
Stack FTE Volumes		85,000.00	0.007	631.97		
			0.007			
			0.006			
Sub-Total		85,000.00	0.007	631.97	928.62	
Study FTE U/Grads		575.80	0.465	267.57		
Prof U/Grads			1.115			
FTE Grads			0.743			
Sub-Total		575.80	0.465	267.57	59.96	
Service (Stack & Study)		899.54	0.250	224.88		
Total				1,124.42	968.58	86.1
ATHLETICS						
Basic				1,858.74		
FTE Students		575.80	0.743	428.10		
Total		575.80	3.972	2,286.84	710.59	31.1
GENERAL USE						
FTE Students		575.80	1.626	936.48	539.41	57.6
SPECIAL USE						
FTE Students		575.80	0.558	321.08	385.97	120.2
TOTAL		575.80	12.022	6,922.54	5,873.88	84.9

Table 11

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

MCMASTER

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		10,141.80	1.208	12,253.10	11,524.00	94.0
CLASS LABS						
Lab Hours	W	7,428.00	0.790	5,867.84		
Lab Hours	X	14,056.00	0.604	8,491.08		
Lab Hours	Y	6,492.00	0.465	3,016.73		
Lab Hours	Z	3,030.00	0.279	844.80		
Total		31,006.00	0.588	18,220.45	16,984.00	93.2
RESEARCH						
FTE Faculty	A	197.65	46.468	9,184.48		
+ 1/2 Grads	B	177.01	32.528	5,757.76		
	C	46.70	18.587	868.03		
	D	94.86	6.970	661.20		
	E					
Total		516.22	31.908	16,471.47	21,905.00	133.0
ACADEMIC OFFICE						
FTE Faculty		562.29	19.517	10,974.06	12,236.00	
FTE Grads		1,151.90	3.717	4,282.16	3,539.00	
Total				15,256.22	15,775.00	103.4
ADMIN OFFICE						
FTE Students		10,141.80	0.836	8,482.92	8,986.00	105.9
LIBRARY						
Stack FTE Volumes		300,000.00	0.007	2,230.48		
		300,000.00	0.007	1,951.67		
		1,103,144.00	0.006	6,151.36		
Sub-Total		1,703,144.00	0.006	10,333.52	7,997.00	
Study FTE U/Grads		10,012.00	0.465	4,652.42		
Prof U/Grads		129.00	1.115	143.87		
FTE Grads		1,151.00	0.743	855.76		
Sub-Total		11,292.00	0.501	5,652.04	5,055.00	
Service (Stack & Study)		15,985.56	0.250	3,996.39	3,367.00	
Total				19,981.95	16,419.00	82.2
ATHLETICS						
Basic				1,858.74		
FTE Students		10,142.00	0.743	7,540.52		
Total		10,142.00	0.927	9,399.26	9,027.00	96.0
GENERAL USE						
FTE Students		10,142.00	1.626	16,494.89	13,940.00	84.5
SPECIAL USE						
FTE Students		10,142.00	0.558	5,655.39	7,604.00	134.5
TOTAL		10,142.00	12.050	122,215.64	122,164.00	100.0

Table 12

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

OTTAWA

			Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS							
	FTE Students		14,728.06	1.208	17,794.12	14,976.53	84.2
CLASS LABS							
	Lab Hours	W	4,793.07	0.790	3,786.35		
	Lab Hours	X	14,049.94	0.604	8,487.42		
	Lab Hours	Y	7,182.89	0.465	3,337.77		
	Lab Hours	Z	12,833.01	0.279	3,577.98		
	Total		38,858.91	0.494	19,189.52	16,926.82	88.2
RESEARCH							
	FTE Faculty	A	228.50	46.468	10,618.03		
	+ 1/2 Grads	B	161.10	32.528	5,240.24		
		C	106.25	18.587	1,974.91		
		D	107.85	6.970	751.74		
		E	1,217.00				
	Total		1,820.70	10.208	18,584.92	17,122.99	92.1
ACADEMIC OFFICE							
	FTE Faculty		953.90	19.517	18,617.01	26,509.80	
	FTE Grads		1,760.93	3.717	6,546.21	3,371.85	
	Total				25,163.22	29,881.65	118.8
ADMIN OFFICE							
	FTE Students		14,728.06	0.836	12,319.01	12,998.06	105.5
LIBRARY							
Stack	FTE Volumes		300,000.00	0.007	2,230.48		
			300,000.00	0.007	1,951.67		
			1,038,389.00	0.006	5,790.27		
	Sub-Total		1,638,389.00	0.006	9,972.43	10,454.19	
Study	FTE U/Grads		11,658.43	0.465	5,417.49		
	Prof U/Grads		1,308.70	1.115	1,459.52		
	FTE Grads		1,760.93	0.743	1,309.24		
	Sub-Total		14,728.06	0.556	8,186.24	3,592.31	
Service (Stack & Study)			18,158.67	0.250	4,539.67	3,769.78	
	Total				22,698.34	17,316.28	78.5
ATHLETICS							
	Basic				1,858.74		
	FTE Students		14,728.06	0.743	10,950.23		
	Total		14,728.06	0.870	12,808.97	8,499.46	66.4
GENERAL USE							
	FTE Students		14,728.06	1.626	23,953.63	17,052.63	71.2
SPECIAL USE							
	FTE Students		14,728.06	0.558	8,212.67	5,208.55	63.4
TOTAL			14,728.06	10.913	160,724.39	140,482.97	87.4

Table 13

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

QUEEN'S

			Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS							
	FTE Students		12,800.00	1.208	15,464.68	16,439.30	106.3
CLASS LABS							
	Lab Hours	W	6,863.00	0.790	5,421.51	9,139.40	
	Lab Hours	X	22,434.00	0.604	13,552.14	14,897.00	
	Lab Hours	Y	13,409.00	0.465	6,230.95	6,776.00	
	Lab Hours	Z	7,127.00	0.279	1,987.08	1,455.20	
	Total		49,833.00	0.546	27,191.68	32,267.60	118.7
RESEARCH							
	FTE Faculty	A	305.20	46.468	14,182.16	12,790.40	
	+ 1/2 Grads	B	212.50	32.528	6,912.17	5,855.40	
		C	80.20	18.587	1,490.71	1,479.90	
		D	85.70	6.970	597.35	1,073.60	
		E				803.30	
	Total		683.60	33.912	23,182.39	22,002.60	94.9
ACADEMIC OFFICE							
	FTE Faculty		752.30	19.517	14,682.43	24,157.70	
	FTE Grads		1,616.00	3.717	6,007.43	4,946.90	
	Total				20,689.87	29,104.60	140.7
ADMIN OFFICE							
	FTE Students		12,800.00	0.836	10,706.32	10,990.90	102.7
LIBRARY							
Stack	FTE Volumes		300,000.00	0.007	2,230.48		
			300,000.00	0.007	1,951.67		
			1,550,000.00	0.006	8,643.12		
	Sub-Total		2,150,000.00	0.006	12,825.28	7,454.30	
Study	FTE U/Grads		9,149.00	0.465	4,251.39		
	Prof U/Grads		1,351.00	1.115	1,506.69		
	FTE Grads		1,501.00	0.743	1,115.99		
	Sub-Total		12,001.00	0.573	6,874.07	11,138.10	
Service (Stack & Study)			19,699.35	0.250	4,924.84	4,308.30	
	Total				24,624.19	22,900.70	93.0
ATHLETICS							
	Basic				1,858.74		
	FTE Students		12,800.00	0.743	9,516.73		
	Total		12,800.00	0.889	11,375.46	12,888.10	113.3
GENERAL USE							
	FTE Students		12,800.00	1.626	20,817.84	21,977.50	105.6
SPECIAL USE							
	FTE Students		12,800.00	0.558	7,137.55	6,043.70	84.7
TOTAL			12,800.00	12.593	161,189.99	174,615.00	108.3

Table 14

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

TORONTO (ST. GEORGE)

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		26,826.56	1.208	32,411.27	32,654.00	100.7
CLASS LABS						
Lab Hours	W	15,307.00	0.790	12,091.96	9,828.00	
Lab Hours	X	42,021.00	0.604	25,384.43	30,950.00	
Lab Hours	Y	10,167.00	0.465	4,724.44	7,772.00	
Lab Hours	Z	7,179.00	0.279	2,001.58	1,217.00	
Total		74,674.00	0.592	44,202.42	49,767.00	112.6
RESEARCH						
FTE Faculty	A	988.18	46.468	45,919.14	43,676.00	
+ 1/2 Grads	B	816.41	32.528	26,556.09	19,341.00	
	C	63.70	18.587	1,184.01	1,765.00	
	D	277.36	6.970	1,933.27	1,393.00	
	E	2,629.10			1,205.00	
Total		4,774.75	15.832	75,592.52	67,380.00	89.1
ACADEMIC OFFICE						
FTE Faculty		2,169.16	19.517	42,334.91	57,992.00	
FTE Grads		5,211.90	3.717	19,375.09	9,792.00	
Total				61,710.00	67,784.00	109.8
ADMIN OFFICE						
FTE Students		26,826.56	0.836	22,438.57	25,521.00	113.7
LIBRARY						
Stack FTE Volumes		300,000.00	0.007	2,230.48		
		300,000.00	0.007	1,951.67		
		5,018,915.00	0.006	27,986.51		
Sub-Total		5,618,915.00	0.006	32,168.67	26,460.00	
Study FTE U/Grads		17,010.36	0.465	7,904.44		
Prof U/Grads		4,604.30	1.115	5,134.91		
FTE Grads		5,211.90	0.743	3,875.02		
Sub-Total		26,826.56	0.631	16,914.37	16,934.00	
Service (Stack & Study)		49,083.04	0.250	12,270.76	14,879.00	
Total				61,353.80	58,273.00	95.0
ATHLETICS						
Basic				1,858.74		
FTE Students		26,826.56	0.743	19,945.40		
Total		26,826.56	0.813	21,804.13	26,278.00	120.5
GENERAL USE						
FTE Students		26,826.56	1.626	43,630.56	31,827.00	72.9
SPECIAL USE						
FTE Students		26,826.56	0.558	14,959.05	10,796.00	72.2
TOTAL		26,826.56	14.094	378,102.32	370,280.00	97.9

Table 15

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

TORONTO (ERINDALE)

			Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS							
	FTE Students		3,978.97	1.208	4,807.31	4,488.00	93.4
CLASS LABS							
	Lab Hours	W		0.790			
	Lab Hours	X	4,263.00	0.604	2,575.23	2,282.00	
	Lab Hours	Y	3,403.00	0.465	1,581.32	3,023.00	
	Lab Hours	Z	1,669.00	0.279	465.33	246.00	
	Total		9,335.00	0.495	4,621.89	5,551.00	120.1
RESEARCH							
	FTE Faculty	A	55.18	46.468	2,564.13	4,192.00	
	+ 1/2 Grads	B		32.528			
		C	14.07	18.587	261.52	999.00	
		D	17.05	6.970	118.84	340.00	
		E	114.89			418.00	
	Total		201.19	14.635	2,944.49	5,949.00	202.0
ACADEMIC OFFICE							
	FTE Faculty		201.19	19.517	3,926.57	3,870.00	
	FTE Grads			3.717		522.00	
	Total				3,926.57	4,392.00	111.9
ADMIN OFFICE							
	FTE Students		3,978.97	0.836	3,328.13	1,931.00	58.0
LIBRARY							
Stack	FTE Volumes		298,154.00	0.007	2,216.76		
				0.007			
				0.006			
	Sub-Total		298,154.00	0.007	2,216.76	1,578.00	
Study	FTE U/Grads		3,978.97	0.465	1,848.96		
	Prof U/Grads			1.115			
	FTE Grads			0.743			
	Sub-Total		3,978.97	0.465	1,848.96	2,738.00	
Service (Stack & Study)			4,065.72	0.250	1,016.43	608.00	
Total				5,082.15	4,924.00	96.9	
ATHLETICS							
	Basic				1,858.74		
	FTE Students		3,978.97	0.743	2,958.34		
	Total		3,978.97	1.211	4,817.08	2,396.00	49.7
GENERAL USE							
	FTE Students		3,978.97	1.626	6,471.37	6,060.00	93.6
SPECIAL USE							
	FTE Students		3,978.97	0.558	2,218.76	2,086.00	94.0
TOTAL			3,978.97	9.605	38,217.75	37,777.00	98.8

Table 16

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

TOPONTO (SCARBOROUGH)

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		3,910.00	1.208	4,723.98	3,336.00	70.6
CLASS LABS						
Lab Hours	W		0.790			
Lab Hours	X	2,630.00	0.604	1,588.75	3,090.00	
Lab Hours	Y	4,737.00	0.465	2,201.21	3,138.00	
Lab Hours	Z	267.00	0.279	74.44	346.00	
Total		7,634.00	0.506	3,864.41	6,574.00	170.1
RESEARCH						
FTE Faculty	A	46.83	46.468	2,176.12	1,787.00	
+ 1/2 Grads	B		32.528			
	C	14.89	18.587	276.77	391.00	
	D	17.80	6.970	124.07	975.00	
	E	130.71				
Total		210.23	12.258	2,576.95	3,153.00	122.4
ACADEMIC OFFICE						
FTE Faculty		210.23	19.517	4,103.06	3,568.00	
FTE Grads			3.717		596.00	
Total				4,103.06	4,164.00	101.5
ADMIN OFFICE						
FTE Students		3,910.00	0.836	3,270.45	1,765.00	54.0
LIBRARY						
Stack FTE Volumes		270,256.00	0.007	2,009.34		
			0.007			
			0.006			
Sub-Total		270,256.00	0.007	2,009.34	728.00	
Study FTE U/Grads		3,910.00	0.465	1,816.91		
Prof U/Grads			1.115			
FTE Grads			0.743			
Sub-Total		3,910.00	0.465	1,816.91	843.00	
Service (Stack & Study)		3,826.25	0.250	956.56	1,144.00	
Total				4,782.82	2,715.00	56.8
ATHLETICS						
Basic				1,858.74		
FTE Students		3,910.00	0.743	2,907.06		
Total		3,910.00	1.219	4,765.80	3,837.00	80.5
GENERAL USE						
FTE Students		3,910.00	1.626	6,359.20	3,741.00	58.8
SPECIAL USE						
FTE Students		3,910.00	0.558	2,180.30	3,262.00	149.6
TOTAL		3,910.00	9.368	36,626.96	32,547.00	88.9

Table 17

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

TRENT

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		3,113.00	1.208	3,761.06	2,373.00	63.1
CLASS LABS						
Lab Hours	W		0.790			
Lab Hours	X	1,610.00	0.604	972.58	1,260.00	
Lab Hours	Y	4,046.00	0.465	1,880.11	1,467.00	
Lab Hours	Z	739.00	0.279	206.04	790.00	
Total		6,395.00	0.478	3,058.74	3,517.00	115.0
RESEARCH						
FTE Faculty	A	23.80	46.468	1,105.95	2,003.00	
+ 1/2 Grads	B		32.528			
	C	14.50	18.587	269.52	313.00	
	D	40.70	6.970	283.69	184.00	
	E	116.10				
Total		195.10	8.504	1,659.15	2,500.00	150.7
ACADEMIC OFFICE						
FTE Faculty		175.20	19.517	3,419.33	3,631.00	
FTE Grads		39.90	3.717	148.33	59.00	
Total				3,567.66	3,690.00	103.4
ADMIN OFFICE						
FTE Students		3,113.00	0.836	2,603.81	2,460.00	94.5
LIBRARY						
Stack FTE Volumes		300,000.00	0.007	2,230.48		
		281,619.00	0.007	1,832.09		
			0.006			
Sub-Total		581,619.00	0.007	4,062.58	2,237.00	
Study FTE U/Grads		3,073.00	0.465	1,427.97		
Prof U/Grads			1.115			
FTE Grads		40.00	0.743	29.74		
Sub-Total		3,113.00	0.468	1,457.71	2,262.00	
Service (Stack & Study)		5,520.29	0.250	1,380.07	960.00	
Total				6,900.36	5,459.00	79.1
ATHLETICS						
Basic				1,858.74		
FTE Students		3,113.00	0.743	2,314.50		
Total		3,113.00	1.341	4,173.23	3,413.00	81.8
GENERAL USE						
FTE Students		3,113.00	1.626	5,062.96	5,619.00	111.0
SPECIAL USE						
FTE Students		3,113.00	0.558	1,735.87	981.00	56 5
TOTAL		3,113.00	10.447	32,522.85	30,012.00	92.3

Table 18

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

WATERLOO

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		14,240.00	1.208	17,204.46	14,372.70	83.5
CLASS LABS						
Lab Hours	W	10,775.00	0.790	8,511.85	5,867.60	
Lab Hours	X	21,295.00	0.604	12,864.08	10,602.80	
Lab Hours	Y	11,477.00	0.465	5,333.18	5,711.30	
Lab Hours	Z	14,634.00	0.279	4,080.11	2,439.90	
Total		58,181.00	0.529	30,789.22	24,621.60	80.0
RESEARCH						
FTE Faculty	A	291.00	46.468	13,522.30	10,979.30	
+ 1/2 Grads	B	425.50	32.528	13,840.61	11,615.60	
	C	117.00	18.587	2,174.72	3,211.90	
	D	145.00	6.970	1,010.69	176.40	
	E	593.00			1,047.80	
Total		1,571.50	19.439	30,548.33	27,031.00	88.5
ACADEMIC OFFICE						
FTE Faculty		820.00	19.517	16,003.72	19,477.90	
FTE Grads		1,503.00	3.717	5,587.36	5,502.30	
Total				21,591.08	24,980.20	115.7
ADMIN OFFICE						
FTE Students		14,240.00	0.836	11,910.78	10,372.80	87.1
LIBRARY						
Stack FTE Volumes		300,000.00	0.007	2,230.48		
		300,000.00	0.007	1,951.67		
		817,682.00	0.006	4,559.57		
Sub-Total		1,417,682.00	0.006	8,741.72	5,884.70	
Study FTE U/Grads		12,499.00	0.465	5,808.09		
Prof U/Grads		238.00	1.115	265.43		
FTE Grads		1,503.00	0.743	1,117.47		
Sub-Total		14,240.00	0.505	7,190.99	4,886.40	
Service (Stack & Study)		15,932.71	0.250	3,983.18	2,869.30	
Total				19,915.88	13,640.40	68.5
ATHLETICS						
Basic				1,858.74		
FTE Students		14,240.00	0.743	10,587.36		
Total		14,240.00	0.874	12,446.10	8,594.20	69.1
GENERAL USE						
FTE Students		14,240.00	1.626	23,159.85	17,206.40	74.3
SPECIAL USE						
FTE Students		14,240.00	0.558	7,940.52	10,581.50	133.3
TOTAL		14,240.00	12.325	175,506.22	151,400.80	86.3

Table 19

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

WESTERN

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		18,771.20	1.208	22,678.96	21,536.00	95.0
CLASS LABS						
Lab Hours	W	5,632.00	0.790	4,449.07	4,499.00	
Lab Hours	X	21,595.00	0.604	13,045.31	14,251.00	
Lab Hours	Y	21,162.00	0.465	9,833.64	10,125.00	
Lab Hours	Z	11,757.00	0.279	3,277.97	5,100.00	
Total		60,146.00	0.509	30,605.99	33,975.00	111.0
RESEARCH						
FTE Faculty	A	445.65	46.468	20,708.64	14,348.00	
+ 1/2 Grads	B	142.25	32.528	4,627.09	4,144.00	
	C	101.45	18.587	1,885.69	2,326.00	
	D	209.45	6.970	1,459.92	1,048.00	
	E	1,247.10			4,789.00	
Total		2,145.90	13.366	28,681.34	26,655.00	92.9
ACADEMIC OFFICE						
FTE Faculty		1,101.80	19.517	21,503.53	26,028.00	
FTE Grads		2,088.20	3.717	7,762.83	4,809.00	
Total				29,266.36	30,837.00	105.4
ADMIN OFFICE						
FTE Students		18,771.20	0.836	15,700.82	13,358.00	85.1
LIBRARY						
Stack FTE Volumes		300,000.00	0.007	2,230.48		
		300,000.00	0.007	1,951.67		
		1,893,525.00	0.006	10,558.69		
Sub-Total		2,493,525.00	0.006	14,740.85	12,125.00	
Study FTE U/Grads		14,728.40	0.465	6,844.05		
Prof U/Grads		1,954.60	1.115	2,179.85		
FTE Grads		2,088.20	0.743	1,552.57		
Sub-Total		18,771.20	0.563	10,576.47	7,494.00	
Service (Stack & Study)		25,317.31	0.250	6,329.33	6,006.00	
Total				31,646.64	25,625.00	81.0
ATHLETICS						
Basic				1,858.74		
FTE Students		18,771.20	0.743	13,956.28		
Total		18,771.20	0.843	15,815.02	13,475.00	85.2
GENERAL USE						
FTE Students		18,771.20	1.626	30,529.37	34,706.00	113.7
SPECIAL USE						
FTE Students		18,771.20	0.558	10,467.21	8,753.00	83.6
TOTAL		18,771.20	11.475	215,391.71	208,920.00	97.0

Table 20

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

WILFRID LAURIER

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		4,904.80	1.208	5,925.87	5,331.00	90.0
CLASS LABS						
Lab Hours	W		0.790			
Lab Hours	X	1,527.00	0.604	922.44	1,532.00	
Lab Hours	Y	2,172.00	0.465	1,009.29	711.00	
Lab Hours	Z	1,356.00	0.279	378.07	127.00	
Total		5,055.00	0.457	2,309.80	2,370.00	102.6
RESEARCH						
FTE Faculty	A	19.00	46.468	882.90	247.00	
+ 1/2 Grads	B		32.528			
	C	31.40	18.587	583.64	298.00	
	D	38.50	6.970	268.36	351.00	
	E	313.10			78.00	
Total		402.00	4.316	1,734.90	974.00	56.1
ACADEMIC OFFICE						
FTE Faculty		265.92	19.517	5,189.89	4,030.00	
FTE Grads		275.90	3.717	1,025.65	242.00	
Total				6,215.54	4,272.00	68.7
ADMIN OFFICE						
FTE Students		4,904.80	0.836	4,102.53	3,000.00	73.1
LIBRARY						
Stack FTE Volumes		300,000.00	0.007	2,230.48		
		253,582.00	0.007	1,649.70		
			0.006			
Sub-Total		553,582.00	0.007	3,880.18	2,389.00	
Study FTE U/Grads		4,628.90	0.465	2,150.98		
Prof U/Grads			1.115			
FTE Grads		276.00	0.743	205.20		
Sub-Total		4,904.90	0.480	2,356.18	1,783.00	
Service (Stack & Study)		6,236.36	0.250	1,559.09	817.00	
Total				7,795.45	4,989.00	64.0
ATHLETICS						
Basic				1,858.74		
FTE Students		4,904.80	0.743	3,646.69		
Total		4,904.80	1.122	5,505.43	4,513.00	82.0
GENERAL USE						
FTE Students		4,904.80	1.626	7,977.14	6,198.00	77.7
SPECIAL USE						
FTE Students		4,904.80	0.558	2,735.02	2,411.00	88.2
TOTAL		4,904.80	9.032	44,301.68	34,058.00	76.9

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Table 21

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

WINDSOR

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		9,357.68	1.208	11,305.75	9,885.60	87.4
CLASS LABS						
Lab Hours	W	7,462.00	0.790	5,894.70	4,676.30	
Lab Hours	X	6,335.50	0.604	3,827.21	6,691.26	
Lab Hours	Y	7,328.50	0.465	3,405.44	4,018.42	
Lab Hours	Z	3,519.00	0.279	981.13	2,450.09	
Total		24,645.00	0.572	14,108.48	17,836.07	126.4
RESEARCH						
FTE Faculty	A	113.25	46.468	5,262.55	5,853.90	
+ 1/2 Grads	B	106.05	32.528	3,449.58	1,244.52	
	C	67.45	18.587	1,253.72	783.64	
	D	64.30	6.970	448.19	206.69	
	E	502.85			151.49	
Total		853.90	12.196	10,414.03	8,240.24	79.1
ACADEMIC OFFICE						
FTE Faculty		535.20	19.517	10,445.35	15,575.04	
FTE Grads		651.50	3.717	2,421.93	1,496.47	
Total				12,867.29	15,071.51	117.1
ADMIN OFFICE						
FTE Students		9,357.68	0.836	7,827.06	4,305.49	55.0
LIBRARY						
Stack FTE Volumes		300,000.00	0.007	2,230.48		
		300,000.00	0.007	1,951.67		
		381,691.00	0.006	2,128.39		
Sub-Total		981,691.00	0.006	6,310.54	6,072.68	
Study FTE U/Grads		7,472.58	0.465	3,472.39		
Prof U/Grads		1,233.60	1.115	1,375.76		
FTE Grads		651.50	0.743	484.39		
Sub-Total		9,357.68	0.570	5,332.54	3,907.71	
Service (Stack & Study)		11,643.08	0.250	2,910.77	4,206.13	
Total				14,553.85	14,186.52	97.5
ATHLETICS						
Basic				1,858.74		
FTE Students		9,357.68	0.743	6,957.38		
Total		9,357.68	0.942	8,816.12	12,406.41	140.7
GENERAL USE						
FTE Students		9,357.68	1.626	15,219.28	10,255.58	67.4
SPECIAL USE						
FTE Students		9,357.68	0.558	5,218.04	4,869.42	93.3
TOTAL		9,357.68	10.722	100,329.89	97,056.84	96.7

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Table 22

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

YORK (MAIN CAMPUS)

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		19,920.43	1.208	24,067.43	19,361.20	80.4
CLASS LABS						
Lab Hours	W		0.790			
Lab Hours	X	23,746.00	0.604	14,344.70	11,209.80	
Lab Hours	Y	3,579.00	0.465	1,663.10	2,198.10	
Lab Hours	Z	10,219.00	0.279	2,849.16	1,933.10	
Total		37,544.00	0.502	18,856.97	15,341.00	81.4
RESEARCH						
FTE Faculty	A	145.23	46.468	6,748.61	6,938.40	
+ 1/2 Grads	B		32.528			
	C	151.03	18.587	2,807.25	1,896.90	
	D	206.98	6.970	1,442.70	1,712.50	
	E	1,599.37			559.60	
Total		2,102.61	5.231	10,998.56	11,107.40	101.0
ACADEMIC OFFICE						
FTE Faculty		1,120.71	19.517	21,872.59	24,689.50	
FTE Grads		1,963.80	3.717	7,300.37	4,235.10	
Total				29,172.96	28,924.60	99.1
ADMIN OFFICE						
FTE Students		19,920.43	0.836	16,662.07	13,124.00	78.8
LIBRARY						
Stack FTE Volumes		300,000.00	0.007	2,230.48		
		300,000.00	0.007	1,951.67		
		1,066,026.00	0.006	5,944.38		
Sub-Total		1,666,026.00	0.006	10,126.54	8,199.10	
Study FTE U/Grads		15,637.29	0.465	7,266.40		
Prof U/Grads		2,319.34	1.115	2,586.62		
FTE Grads		1,963.80	0.743	1,460.07		
Sub-Total		19,920.43	0.568	11,313.10	6,378.00	
Service (Stack & Study)		21,439.64	0.250	5,359.91	6,199.50	
Total				26,799.55	20,776.60	77.5
ATHLETICS						
Basic				1,858.74		
FTE Students		19,920.43	0.743	14,810.73		
Total		19,920.43	0.837	16,669.46	7,336.30	44.0
GENERAL USE						
FTE Students		19,920.43	1.626	32,398.47	20,163.90	62.2
SPECIAL USE						
FTE Students		19,920.43	0.558	11,108.05	4,681.80	42.1
TOTAL		19,920.43	9.374	186,733.52	140,816.80	75.4

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Table 23

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

YORK (GLENDON COLLEGE)

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		1,434.66	1.208	1,733.33	1,817.30	104.8
CLASS LABS						
Lab Hours	W		0.790			
Lab Hours	X	839.00	0.604	506.83	293.40	
Lab Hours	Y	1,711.00	0.465	795.07	174.20	
Lab Hours	Z	2,186.00	0.279	610.04	315.50	
Total		4,738.90	0.404	1,911.94	783.10	41.0
RESEARCH						
FTE Faculty	A		46.468			
+ 1/2 Grads	B		32.528			
	C	7.88	18.587	146.47	228.90	
	D		6.970			
	E	106.06				
Total		113.94	1.285	146.47	228.90	156.3
ACADEMIC OFFICE						
FTE Faculty		113.94	19.517	2,223.74	2,245.60	
FTE Grads			3.717			
Total				2,223.74	2,245.60	101.0
ADMIN OFFICE						
FTE Students		1,434.66	0.836	1,199.99	826.90	68.9
LIBRARY						
Stack FTE Volumes		237,701.00	0.007	1,767.29		
			0.007			
			0.006			
Sub-Total		237,701.00	0.007	1,767.29	952.60	
Study FTE U/Grads		1,434.66	0.465	666.66		
Prof U/Grads			1.115			
FTE Grads			0.743			
Sub-Total		1,434.66	0.465	666.66	786.20	
Service (Stack & Study)		2,433.96	0.250	608.49	343.50	
Total				3,042.45	2,082.30	68.4
ATHLETICS						
Basic				1,858.74		
FTE Students		1,434.66	0.743	1,066.66		
Total		1,434.66	2.039	2,925.40	3,241.80	110.8
GENERAL USE						
FTE Students		1,434.66	1.626	2,333.32	2,852.90	122.3
SPECIAL USE						
FTE Students		1,434.66	0.558	800.00	594.40	74.3
TOTAL		1,434.66	11.373	16,316.63	14,673.20	89.9

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Table 24

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

RYERSON

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		11,467.52	1.208	13,854.81	11,170.30	80.6
CLASS LABS						
Lab Hours	W	17,395.48	0.790	13,741.79	12,125.60	
Lab Hours	X	34,549.82	0.604	20,871.18	15,323.30	
Lab Hours	Y	10,339.76	0.465	4,804.72	1,779.60	
Lab Hours	Z	18,269.78	0.279	5,093.80	2,765.60	
Total		80,554.84	0.553	44,511.49	31,994.10	71.9
RESEARCH						
FTE Faculty	A		46.468			
+ 1/2 Grads	B		32.528			
	C		18.587			
	D		6.970			
	E					
Total				0.00	0.00	0.0
ACADEMIC OFFICE						
FTE Faculty		675.70	19.517	13,187.45	10,206.50	
FTE Grads			3.717			
Total				13,187.45	10,206.50	
ADMIN OFFICE						
FTE Students		11,467.52	0.836	9,591.79	6,872.00	71.6
LIBRARY						
Stack FTE Volumes		300,000.00	0.007	2,230.48		
		81,198.00	0.007	528.24		
			0.006			
Sub-Total		381,198.00	0.007	2,758.72	6,467.00	
Study FTE U/Grads		11,467.52	0.465	5,328.77		
Prof U/Grads			1.115			
FTE Grads			0.743			
Sub-Total		11,467.52	0.465	5,328.77		
Service (Stack & Study)		8,087.49	0.250	2,021.87	2,312.00	
Total				10,109.37	8,779.00	86.8
ATHLETICS						
Basic				1,858.74		
FTE Students		11,467.52	0.743	8,526.03		
Total		11,467.52	0.906	10,384.77	3,365.40	32.4
GENERAL USE						
FTE Students		11,467.52	1.626	18,650.70	10,270.60	55.1
SPECIAL USE						
FTE Students		11,467.52	0.558	6,394.53	6,740.50	105.4
TOTAL		11,467.52	11.047	126,684.90	89,398.40	70.6

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Table 25

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU SPACE STANDARDS, 1983-84

ONTARIO COLLEGE OF ART

		Input Measure	Space Factor	Space Generated	Inventory	% I/G
CLASSROOMS						
FTE Students		1,724.60	1.208	2,083.62	883.26	42.4
CLASS LABS						
Lab Hours	W		0.790			
Lab Hours	X	427.00	0.604	257.95	7,404.50	
Lab Hours	Y		0.465			
Lab Hours	Z		0.279			
Total		427.00	0.604	257.95	7,404.50	2,870.6
RESEARCH						
FTE Faculty	A		46.468			
+ 1/2 Grads	B		32.528			
	C		18.387			
	D		6.970			
	E					
Total				0.00	0.00	0.0
ACADEMIC OFFICE						
FTE Faculty		100.36	19.517	1,958.70	872.94	
FTE Grads			3.717			
Total				1,958.70	872.94	44.6
ADMIN OFFICE						
FTE Students		1,724.60	0.836	1,442.51	602.78	41.8
LIBRARY						
Stack FTE Volumes		36,255.00	0.007	269.55		
			0.007			
			0.006			
Sub-Total		36,255.00	0.007	269.55	488.28	
Study FTE U/Grads		1,724.60	0.465	801.39		
Prof U/Grads			1.115			
FTE Grads			0.743			
Sub-Total		1,724.60	0.465	801.39	20.07	
Service (Stack & Study)		1,070.95	0.250	267.74		
Total				1,338.68	508.35	38.0
ATHLETICS						
Basic				1,858.74		
FTE Students		1,724.60	0.743	1,282.23		
Total		1,724.60	1.821	3,140.97		
GENERAL USE						
FTE Students		1,724.60	1.626	2,804.88	1,315.89	46.9
SPECIAL USE						
FTE Students		1,724.60	0.558	961.67	242.63	25.2
TOTAL		1,724.60	8.111	13,988.98	11,830.35	84.6

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Table 26

CLASSROOM SPACE GENERATED PER FTE STUDENT, 1983-84

	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	4,730.6	1.2	5,715	5,939	103.9
Carleton	11,327.8	1.2	13,686	12,049	88.0
Guelph	10,697.2	1.2	12,924	11,088	85.8
Lakehead	4,004.5	1.2	4,838	4,872	100.7
Laurentian					
Laurentian	3,696.0	1.2	4,465	5,662	126.8
Algoma	272.5	1.2	329	866	263.0
Nipissing	575.8	1.2	696	1,810	260.1
Hearst*		1.2			
McMaster	10,141.8	1.2	12,253	11,524	94.0
Ottawa	14,728.1	1.2	17,794	14,977	84.2
Queen's	12,800.0	1.2	15,465	16,439	106.3
Toronto					
St. George	26,826.6	1.2	32,411	32,654	100.7
Erindale	3,979.0	1.2	4,807	4,488	93.4
Scarborough	3,910.0	1.2	4,724	3,336	70.6
Trent	3,113.0	1.2	3,761	2,373	63.1
Waterloo	14,240.0	1.2	17,204	14,373	83.5
Western	18,771.2	1.2	22,679	21,536	95.0
WLU	4,904.8	1.2	5,926	5,331	90.0
Windsor	9,357.7	1.2	11,306	9,886	97.4
York					
York	19,920.4	1.2	24,067	19,361	80.4
Glendon	1,434.7	1.2	1,733	1,817	104.8
OCA	1,724.6	1.2	2,084	883	42.4
OISE*		1.2			
Ryerson	11,467.5	1.2	13,855	11,170	80.6
Total	192,623.5	1.2	232,724	212,434	91.3

* Not available

Input Measure: Total FTE students, as defined in 1.0 of Appendix B.

Space Factor: 1.2 s.m. per FTE student

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Table 27

CLASS LAB SPACE GENERATED PER LAB CONTACT HOUR, 1983-84

	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	9,212.0	0.4	4,072	4,484	110.1
Carleton	28,211.5	0.6	17,263	17,767	102.9
Guelph	66,339.0	0.6	38,355	28,157	73.4
Lakehead	17,795.0	0.6	10,122	9,595	94.8
Laurentian					
Laurentian	10,772.0	0.5	5,887	5,379	91.4
Algoma	580.0	0.4	228	424	185.6
Nipissing	325.0	0.8	257	314	122.5
Hearst*					
McMaster	31,006.0	0.6	18,220	16,984	93.2
Ottawa	38,858.9	0.5	19,190	16,927	88.2
Queen's	49,833.0	0.5	27,192	32,268	118.7
Toronto					
St. George	74,674.0	0.6	44,202	49,767	112.6
Erindale	9,335.0	0.5	4,622	5,551	120.1
Scarborough	7,634.0	0.5	3,864	6,574	170.1
Trent	6,395.0	0.5	3,059	3,517	115.0
Waterloo	58,181.0	0.5	30,789	24,622	80.0
Western	60,146.0	0.5	30,606	33,975	111.0
WLU	5,055.0	0.5	2,310	2,370	102.6
Windsor	24,645.0	0.6	14,108	17,836	126.4
York					
York	37,544.0	0.5	18,857	15,341	81.4
Glendon	4,738.0	0.4	1,912	783	41.0
OCA	427.0	0.6	258	7,405	2,870.6
OISE*					
Ryerson	80,554.8	0.6	44,511	31,994	71.9
Total	622,261.3	0.5	339,885	332,034	97.7

* Not available

Input Measure: Total laboratory weekly student contact hours for programmes in Groups W,X,Y,Z, as defined in Appendix C, "Programme Related Space Factors."

Space Factor: A weighted average of class lab factors for groups W-Z (Total class lab space generated divided by total lab contact hours.)

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Table 28

CLASS LAB SPACE GENERATED PER FTE STUDENT, 1983-84

	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	4,730.6	0.9	4,072	4,484	110.1
Carleton	11,327.8	1.5	17,263	17,767	102.9
Guelph	10,697.2	3.6	38,355	28,157	73.4
Lakehead	4,004.5	2.5	10,122	9,595	94.8
Laurentian					
Laurentian	3,696.0	1.6	5,887	5,379	91.4
Algoma	272.5	0.8	228	424	185.6
Nipissing	575.3	0.4	257	314	122.5
Hearst*					
McMaster	10,141.8	1.8	18,220	16,984	93.2
Ottawa	14,728.1	1.3	19,190	16,927	88.2
Queen's	12,800.0	2.1	27,192	32,268	118.7
Toronto					
St. George	26,826.6	1.6	44,202	49,767	112.6
Erindale	3,979.0	1.2	4,622	5,551	120.1
Scarborough	3,910.0	1.0	3,864	6,574	170.1
Trent	3,113.0	1.0	3,059	3,517	115.0
Waterloo	14,240.0	2.2	30,789	24,622	80.0
Western	18,771.2	1.6	30,606	33,975	111.0
WLU	4,904.8	0.5	2,310	2,370	102.6
Windsor	9,357.7	1.5	14,108	17,836	126.4
York					
York	19,920.4	0.9	18,857	15,341	81.4
Glendon	1,434.7	1.3	1,912	783	41.0
OCA	1,724.6	0.1	258	7,405	2,870.6
OISE*					
Ryerson	11,467.5	3.9	44,511	31,994	71.9
Total	192,623.5	1.8	339,885	332,034	97.7

* Not available

Input Measure: Total FTE students.

Space Factor: Total class lab space generated divided by total FTE students.

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Table 29

RESEARCH SPACE GENERATED PER FTE FACULTY
AND .50 FTE GRADUATE STUDENTS, 1983-84

	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	314.1	11.4	3,581	3,493	97.5
Carleton	1,225.4	10.8	13,265	7,677	57.9
Guelph	1,194.7	26.8	32,079	20,193	62.9
Lakehead	314.5	14.9	4,677	2,763	59.1
Laurentian					
Laurentian	310.0	14.0	4,333	1,731	39.9
Algoma	6.7	22.0	147		
Nipissing**					
Hearst*					
McMaster	516.2	31.9	16,471	21,905	133.0
Ottawa	1,820.7	10.2	18,585	17,123	92.1
Queen's	683.6	33.9	23,182	22,003	94.9
Toronto					
St. George	4,774.8	15.8	75,593	67,380	89.1
Erindale	201.2	14.6	2,944	5,949	202.0
Scarborough	210.2	12.3	2,577	3,153	122.4
Trent	195.1	8.5	1,659	2,500	150.7
Waterloo	1,571.5	19.4	30,548	27,031	88.5
Western	2,145.9	13.4	28,681	26,655	92.9
WLU	402.0	4.3	1,735	974	56.1
Windsor	853.9	12.2	10,414	8,240	79.1
York					
York	2,102.6	5.2	10,999	11,107	101.0
Glendon	113.9	1.3	146	229	156.3
OCA**					
OISE*					
Ryerson**					
Total	18,957.1	14.9	281,617	250,106	88.8

* Data not available
** Category not applicable

Input Measure: The total of FTE faculty plus one-half graduate student in programmes A-E (Appendix C, "Programme Related Space Factors").

Space Factor: A weighted average of space factors for programmes A-E (Total research space generated divided by total faculty and one-half graduate student).

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Table 30

ACADEMIC OFFICE SPACE GENERATED PER FTE STUDENT, 1983-84

	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	4,730.6	1.4	6,479	6,042	93.3
Carleton	11,327.8	1.4	16,338	19,439	119.0
Guelph	10,697.2	1.7	18,494	17,636	95.4
Lakehead	4,004.5	1.3	5,353	4,682	87.5
Laurentian					
Laurentian	3,696.0	1.5	5,410	5,138	95.0
Algoma	272.5	2.4	644	391	60.7
Nipissing	575.8	1.4	820	942	114.9
Hearst*					
McMaster	10,141.8	1.5	15,256	15,775	103.4
Ottawa	14,728.1	1.7	25,163	29,382	118.8
Queen's	12,800.0	1.6	20,690	29,105	140.7
Toronto					
St. George	26,826.6	2.3	61,710	67,784	109.8
Erindale	3,979.0	1.0	3,927	4,392	111.9
Scarborough	3,910.0	1.0	4,103	4,164	101.5
Trent	3,113.0	1.1	3,568	3,690	103.4
Waterloo	14,240.0	1.5	21,591	24,980	115.7
Western	18,771.2	1.6	29,266	30,837	105.4
WLU	4,904.8	1.3	6,216	4,272	68.7
Windsor	9,357.7	1.4	12,867	15,072	117.1
York					
York	19,920.4	1.5	29,173	28,925	99.1
Glendon	1,434.7	1.6	2,224	2,246	101.0
OCA	1,724.6	1.1	1,959	873	44.6
OISE*					
Ryerson	11,467.5	1.1	13,187	10,207	77.4
Total	192,623.5	1.6	304,436	326,471	107.2

* Not available

Input Measure: Total FTE students.

Space Factor: Total space generated for each FTE faculty (19.517 s.m.) and FTE graduate student (3.717 s.m.), divided by total FTE students.

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Table 31

ADMINISTRATION OFFICE SPACE GENERATED PER FTE STUDENT, 1983-84

	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	4,730.6	0.8	3,957	2,296	58.0
Carleton	11,327.8	0.8	9,475	7,971	84.1
Guelph	10,697.2	0.8	8,947	13,628	152.3
Lakehead	4,004.5	0.8	3,349	2,716	81.1
Laurentian					
Laurentian	3,696.0	0.8	3,091	2,661	86.1
Algoma	272.5	0.8	228	297	130.3
Nipissing	575.6	0.8	482	204	42.3
Hearst*		0.8			
McMaster	10,141.8	0.8	8,483	8,986	105.9
Ottawa	14,728.1	0.8	12,319	12,998	105.5
Queen's	12,800.0	0.8	10,706	10,991	102.7
Toronto					
St. George	26,826.6	0.8	22,439	25,521	113.7
Erindale	3,979.0	0.8	3,328	1,931	58.0
Scarborough	3,910.0	0.8	3,270	1,765	54.0
Trent	3,113.0	0.8	2,604	2,460	94.5
Waterloo	14,240.0	0.8	11,911	10,373	87.1
Western	18,771.2	0.8	15,701	13,358	85.1
WLU	4,904.8	0.8	4,103	3,000	73.1
Windsor	9,357.7	0.8	7,827	4,305	55.0
York					
York	19,920.4	0.8	16,662	13,124	78.8
Glendon	1,434.7	0.8	1,200	827	68.9
OCA	1,724.6	0.8	1,443	603	41.8
OISE*		0.8			
Ryerson	11,467.5	0.8	9,592	6,872	71.6
Total	192,623.5	0.8	161,116	146,886	91.2

* Not available

Input Measure: Total FTE student.

Space Factor: 0.836 s.m. for each FTE student.

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Table 32

LIBRARY SPACE GENERATED PER FTE STUDENT, 1983-84

	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	4,730.6	1.6	7,508	3,978	53.0
Carleton	11,327.8	1.6	18,405	10,558	57.4
Guelph	10,697.2	2.1	22,432	12,314	54.9
Lakehead	4,004.5	1.8	7,251	5,547	76.5
Laurentian					
Laurentian	3,696.0	2.7	10,102	6,231	61.7
Algoma	272.5	3.7	1,015	858	84.5
Nipissing	575.8	2.0	1,124	969	86.1
Hearst*					
McMaster	10,141.8	2.0	19,982	16,419	82.2
Ottawa	14,728.1	1.5	22,698	17,816	78.5
Queen's	12,800.0	1.9	24,624	22,901	93.0
Toronto					
St. George	26,826.6	2.3	61,354	58,273	95.0
Erindale	3,979.0	1.3	5,082	4,924	96.9
Scarborough	3,910.0	1.2	4,783	2,715	56.8
Trent	3,113.0	2.2	6,900	5,459	79.1
Waterloo	14,240.0	1.4	19,916	13,640	68.5
Western	18,771.2	1.7	31,647	25,625	81.0
WLU	4,904.8	1.6	7,795	4,989	64.0
Windsor	9,357.7	1.6	14,554	14,187	97.5
York					
York	19,920.4	1.3	26,800	20,777	77.5
Glendon	1,434.7	2.1	3,042	2,082	68.4
OCA	1,724.6	0.8	1,339	508	38.0
OISE*					
Ryerson	11,467.5	0.9	10,109	8,779	86.8
Total	192,623.5	1.7	328,463	259,548	79.0

* Not available

Input Measure: Total FTE students.

Space Factor: Total library space generated (stack space for total volumes, study space for FTE undergraduates, professional undergraduates and graduates, and service space for that number of volumes and students), divided by total FTE students.

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Table 33

ATHLETICS SPACE GENERATED PER FTE STUDENT, 1983-84

	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	4,730.6	1.1	5,376	7,219	134.3
Carleton	11,327.8	0.9	10,281	8,356	81.3
Guelph	10,697.2	0.9	9,812	7,911	80.6
Lakehead	4,004.5	1.2	4,836	5,521	114.2
Laurentian					
Laurentian	3,696.0	1.2	4,607	6,318	137.1
Algoma	272.5	7.6	2,061		
Nipissing	575.8	4.0	2,287	711	31.1
Hearst*					
McMaster	10,142.0	0.9	9,399	9,027	96.0
Ottawa	14,728.1	0.9	12,809	8,499	66.4
Queen's	12,800.0	0.9	11,375	12,888	113.3
Toronto					
St. George	26,826.6	0.8	21,804	26,278	120.5
Erindale	3,979.0	1.2	4,817	2,396	49.7
Scarborough	3,910.0	1.2	4,766	3,837	80.5
Trent	3,113.0	1.3	4,173	3,413	81.8
Waterloo	14,240.0	0.9	12,446	8,594	69.1
Western	18,771.2	0.8	15,815	13,475	85.2
WLU	4,904.8	1.1	5,505	4,513	82.0
Windsor	9,357.7	0.9	8,816	12,406	140.7
York					
York	19,920.4	0.8	16,669	7,336	44.0
Glendon	1,434.7	2.0	2,925	3,242	110.8
OCA	1,724.6	1.8	3,141		
OISE*					
Ryerson	11,467.5	0.9	10,385	3,365	32.4
Total	192,623.7	1.0	184,107	155,306	84.4

* Not available

Input Measure: Total FTE students.

Space Factor: Total athletic space generated (a basic allotment of 1,858.74 s.m. plus 0.743 s.m. for each FTE student), divided by total FTE students.

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Table 34

GENERAL USE SPACE GENERATED PER FTE STUDENT, 1983-84

	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	4,730.6	1.6	7,694	6,306	82.0
Carleton	11,327.8	1.6	18,423	13,588	73.8
Guelph	10,697.2	1.6	17,398	17,217	99.0
Lakehead	4,004.5	1.6	6,513	6,770	103.9
Laurentian					
Laurentian	3,696.0	1.6	6,011	5,324	88.6
Algoma	272.5	1.6	443	594	134.0
Nipissing	575.8	1.6	936	539	57.6
Hearst*		1.6			
McMaster	10,142.0	1.6	16,495	13,940	84.5
Ottawa	14,728.1	1.6	23,954	17,053	71.2
Queen's	12,800.0	1.6	20,818	21,978	105.6
Toronto					
St. George	26,826.6	1.6	43,631	31,827	72.9
Erindale	3,979.0	1.6	6,471	6,060	93.6
Scarborough	3,910.0	1.6	6,359	3,741	58.8
Trent	3,113.0	1.6	5,063	5,619	111.0
Waterloo	14,240.0	1.6	23,160	17,206	74.3
Western	18,771.2	1.6	30,529	34,706	113.7
WLU	4,904.8	1.6	7,977	6,198	77.7
Windsor	9,357.7	1.6	15,219	10,256	67.4
York					
York	19,920.4	1.6	32,398	20,164	62.2
Glendon	1,434.7	1.6	2,333	2,853	122.3
OCA	1,724.6	1.6	2,805	1,316	46.9
OISE*		1.6			
Ryerson	11,467.5	1.6	18,651	10,271	55.1
Total	192,623.7	1.6	313,282	253,524	80.9

* Not available

Input Measure: Total FTE students.

Space Factors: 1.6 s.m. of general use space (food services, bookstore, commons, assembly and exhibition) for each FTE student.

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Table 35

SPECIAL USE SPACE GENERATED PER FTE STUDENT, 1983-84

	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	4,730.6	0.6	2,638	3,108	117.8
Carleton	11,327.8	0.6	6,317	5,104	80.8
Guelph	10,697.2	0.6	5,965	8,359	140.1
Lakehead	4,004.5	0.6	2,233	2,126	95.2
Laurentian					
Laurentian	3,696.0	0.6	2,061	2,245	108.9
Algoma	272.5	0.6	152	131	86.2
Nipissing	575.8	0.6	321	386	120.2
Hearst*		0.6			
McMaster	10,142.0	0.6	5,655	7,604	134.5
Ottawa	14,728.1	0.6	8,213	5,209	63.4
Queen's	12,800.0	0.6	7,138	6,044	84.7
Toronto					
St. George	26,826.6	0.6	14,959	10,796	72.2
Erindale	3,979.0	0.6	2,219	2,086	94.0
Scarborough	3,910.0	0.6	2,180	3,262	149.6
Trent	3,113.0	0.6	1,736	981	56.5
Waterloo	14,240.0	0.6	7,941	10,582	133.3
Western	18,771.2	0.6	10,467	8,753	83.6
WLU	4,904.8	0.6	2,735	2,411	88.2
Windsor	9,357.7	0.6	5,218	4,869	93.3
York					
York	19,920.4	0.6	11,108	4,682	42.1
Glendon	1,434.7	0.6	800	594	74.3
OCA	1,724.6	0.6	962	243	25.2
OISE*		0.6			
Ryerson	11,467.5	0.6	6,395	6,741	105.4
Total	192,623.7	0.6	107,411	96,315	89.7

* Not available

Input Measure: Total FTE student.

Space Factor: 0.6 s.m. of special use space (audio/visual, health service, maintenance, computer and stores) for each FTE student.

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Figure 3
SPACE GENERATED BY TYPE
Inventory of Space Generated
1983–84

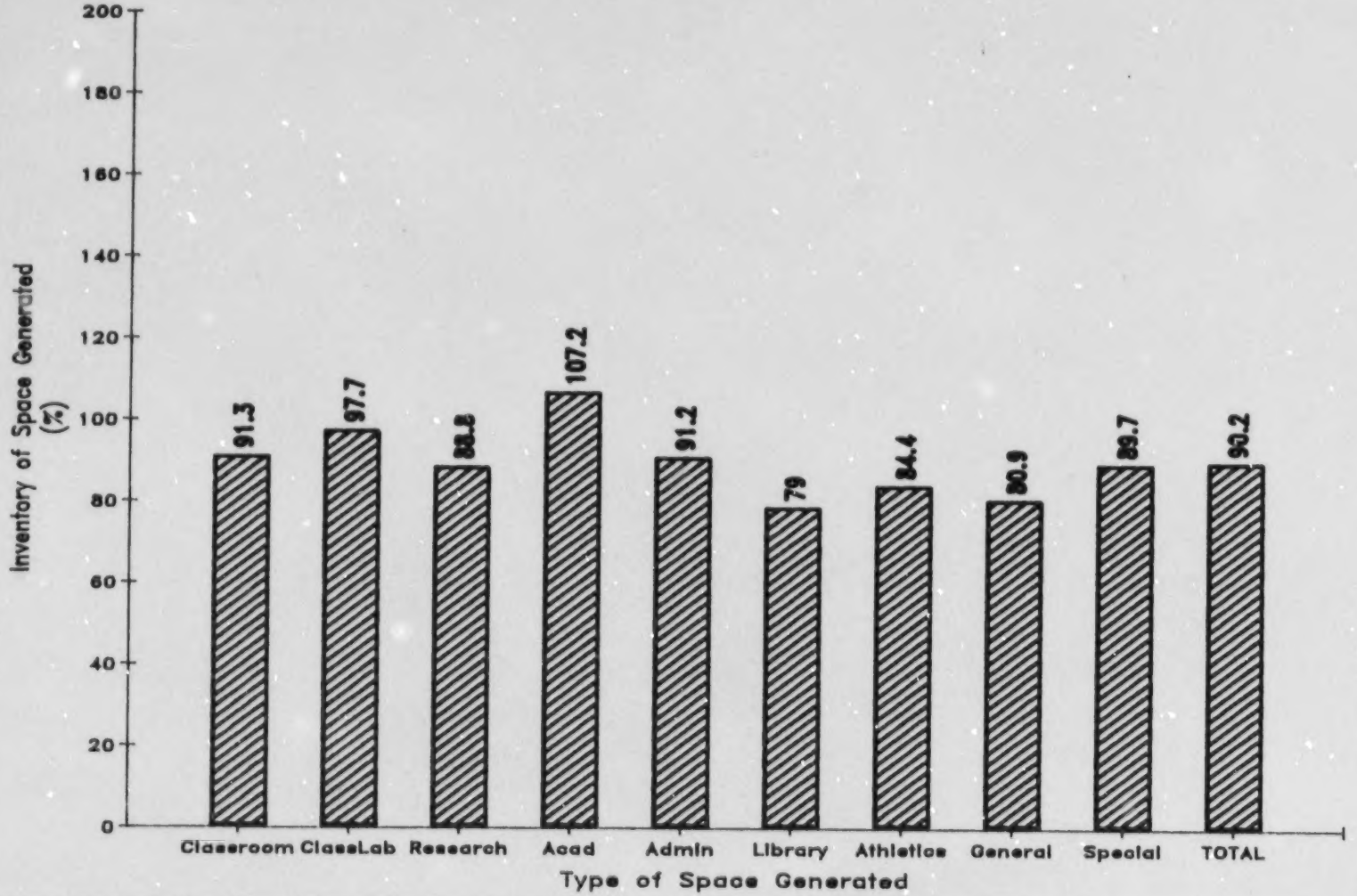

Table 36

TOTAL SPACE GENERATED PER FTE STUDENT, 1983-84

	Input Measure	Space Generated	Generated Per FTE	Inventory	Inventory Per FTE	% I/G
Brock	4,730.6	47,019	9.9	42,864	9.1	91.2
Carleton	11,327.8	123,452	10.9	102,509	9.0	83.0
Guelph	10,697.2	166,405	15.6	136,503	12.8	82.0
Lakehead	4,004.5	49,172	12.3	44,592	11.1	90.7
Laurentian						
Laurentian	3,696.0	45,968	12.4	40,689	11.0	88.5
Algoma	272.5	5,248	19.3	3,561	13.1	67.9
Nipissing	575.8	6,923	12.0	5,874	10.2	84.9
Hearst*						
McMaster	10,142.0	122,216	12.1	122,164	12.0	100.0
Ottawa	14,728.1	160,724	10.9	140,483	9.5	87.4
Queen's	12,800.0	161,190	12.6	174,615	13.6	108.3
Toronto						
St. George	25,826.6	378,102	14.1	370,180	13.8	97.9
Erindale	3,979.0	38,218	9.6	37,777	9.5	98.8
Scarborough	3,910.0	36,627	9.4	32,547	8.3	88.9
Trent	3,113.0	32,523	10.4	30,012	9.6	92.3
Waterloo	14,240.0	175,506	12.3	151,401	10.6	86.3
Western	18,771.2	215,392	11.5	208,920	11.1	97.0
WLU	4,904.8	44,302	9.0	34,058	6.9	76.9
Windsor	9,357.7	100,330	10.7	97,057	10.4	96.7
York						
York	19,920.4	186,734	9.4	140,817	7.1	75.4
Glendon	1,434.7	16,317	11.4	14,673	10.2	89.9
OCA	1,724.6	13,989	8.1	11,830	6.9	84.6
OISE*						
Ryerson	11,467.5	126,685	11.0	89,398	7.8	70.6
Total	192,623.7	2,253,041	11.7	2,032,624	10.6	90.2

* Not available

Input Measure: Total FTE students.

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APPENDIX A

SPACE CLASSIFICATION SCHEME

SPACE CLASSIFICATION SCHEME

Section 1 - Notes

The space classification scheme is presented in three sections. This section defines the nature and scope of the inventory that is to be included in the reporting and addresses several recurring questions concerning space inventory and classification.

Categories

Section 2 is the classification scheme itself. It includes 19 categories of space type which are accompanied by definitions aimed at the main intent of the classification. The first 15 of these categories identify the more usual kinds of usable or assignable spaces in an institution for which space standards could normally be developed, while categories 16 through 19 classify non-assignable spaces or highly specialized facilities generally of a unique nature. The definitions of the space types are meant to be mutually exclusive.

Subcategories

Each of these 19 initial categories is further classified into one or more subcategories. These subcategories are identified merely by their names and by examples of specific room types that would likely be included. The examples of room types are neither exhaustive nor mutually exclusive, but are instead intended to characterize the nature of the subcategory. It should be emphasized that all rooms classified into a subcategory must meet the definition of the main category itself.

Exclusions

A specific set of Room Types Excluded has been specified for most categories of space to assist in the immediate identification of classification problems. For detailed commentary on individual rooms it is recommended that the glossary be consulted.

Glossary

Section 3 of the classification scheme is the glossary. This is intended to be a flexible document which will record detailed decisions and trade-offs that have been made in space classification problems. In some cases use of the glossary is probably the only means by which a room could be classified (e.g. see "Computing Facilities"). The glossary therefore, forms an integral part of the classification scheme.

Reporting Format

An attachment is included with the classification scheme, although it is not really a part of it. It is a suggested format for reporting the inventory. Because of its form it is also a handy list of the category and subcategory names. Of course, any university that has sophisticated enough computer systems to produce the report will automatically find this attachment to be redundant.

Scope of Inventory

The inventory of space that is to be reported is to include all spaces defined in the classification scheme regardless of whether the space is owned, leased or rented by the university or others, and regardless of the source of funds used for its construction or acquisition and regardless of the age or condition of the space. By this definition, the space reported may include facilities not owned by the university on one hand, or may exclude owned facilities on the other. Owned facilities which are excluded for example, could be houses used for domestic purposes or income and other properties which only incidentally serve the university population. In the broadest terms, the space to be reported should be that necessary and useful to the university in supporting the institution and its faculty, staff and students in their mission of instruction, research and public service.

Coding

The classification scheme in the strictest sense is not a coding scheme in that no information about the relationships between the categories is implied or can be obtained from the category numbers. It would appear that broad agreement on just what these relationships might be cannot be reached. In the absence of further direction, several universities have used the present list of numbers as a self-contained coding structure or have used the list as the basis for the development of a detailed use-coding scheme. As unsystematic as this may be, it at least assures a direct map into any future code structure which may be used for inter-university reporting, although of course, any set of one-to-one identifiers would do. In any event, it is expected that government reporting or inter-university comparison of space types will be conducted at the category or subcategory levels of detail. (This of course does not preclude the possibility of reporting by department and space type say, or by source of funds and space type.) It is further recognized that this classification scheme will not normally be detailed enough for internal use and the universities may differ widely on the development of a third level of space classification. It is expected that any handling of data at this third level will be on an ad-hoc basis and that no large systematic reporting or handling of data need be included for. Alternatively, the universities are encouraged to develop automatic means for reporting at the subcategory level, with and without subtotaling by department, building, and possibly source of funds.

Pro-Rationing

One of the primary purposes of the classification scheme was to distinguish between spaces that were put to differing uses by means of adequate definitions or, where these judgements were difficult to make, to develop entire new categories to describe those which fell somewhere in between. Pro-rationing should not, in general, be required to distinguish between differing uses or even to describe multiple use facilities. Whole classifications should almost always be attempted on the basis of the closest definition. Of course, minimizing the pro-rationing of rooms on the basis of use will not necessarily extend to the control, function or funding of space.

Source of Funds

As previously mentioned, all facilities that can be classified by the definitions are to be included regardless of source of funds. While source of funds is an important component in the description of the capital assets of an institution and, in particular, special provisions need to be made to encourage private funding of universities, it was felt that these matters lie outside the development of a space classification scheme. It was expected that each university would retain suitable records of its funding sources without direction.

Measurement of Space

Exacting definitions of space classifications were reviewed on pages 23 through 27 of Volume 1 of Building Blocks and comprise an excellent discussion of the major space types. Further specification of the methodology of space measurement hardly seems appropriate in such a practiced jurisdiction as Ontario. There are two areas however, in which recurring difficulty in the classification of space are apparent. The first concerns the classification of Inactive space.

Broadly speaking, the intent of the classification scheme is to classify inactive spaces as either assignable or unassignable. Inactive Assignable spaces are those which are deemed to be available for immediate occupancy but which had not been assigned to individuals or groups at the time of the survey. These spaces then, are unassigned (to individuals or groups) but are assignable (available for immediate use). Also included in this group would be larger areas constructed, finished and held for future use, or areas removed from active use because of declining needs or lack of operating funds, for example, an entire floor of a building which has been locked and kept under minimum heating. Such spaces, even though they may require some start-up time, should be reported in this subcategory. Further reporting in this subcategory could be spaces of small or moderate size which were unavailable for use for periods of time of up to one-half of an academic term, due to regular maintenance, refurbishing or minor renovations and for which the inclusion of the space either here (or for that matter in Categories 1 to 15), would not normally present a distortion of the needs of the institution. Because no definition of this type of space is included in the present Classification scheme, it is tentatively suggested that this space be reported as Sub-Category 19.5, Inactive Assignable, as noted on the reporting form.

The classification Inactive Unassignable should be then reserved for those spaces which would require long lead times and extensive work to make them available for occupancy. Such spaces would include those left unfinished at the time of construction or those undergoing renovations or major repairs requiring large areas of a building to be out of service for many months. In the case of very extensive renovations, it may in fact be more convenient to consider the building as "under construction" and simply not report the space at all. Again, because no definition is currently in the Classification Scheme for this type of space, it is suggested that any facilities be reported under Sub-Category 16.3, Inactive Unassignable.

The second difficult area of classification concerns the measurement of Circulation Area. According to the adopted definition on page 26 of Building Blocks, circulation area is that which is required for physical

access to some subdivision of space - whether or not enclosed by partitions. With increased use of office landscaped designs and the particular problems of measuring library space, there appears to be a need for some commentary in order that uniformity of measurement is achieved.

For such large unobstructed areas we should note that:

a) Code requirements must be met. The Ontario Fire Marshall's Office requires that floor plans of office landscaped areas indicate fire corridors, which must be left unobstructed. In addition, in some work areas subject to congestion, for example, large machine shops or warehousing areas, corridor demarcations may be painted on the floor to indicate fire escape routes or areas that must be left unobstructed for safety reasons. These should be measured as Circulation Area.

b) The divisions of space for which general access is required, as referred to in the Building Blocks definition, should certainly be construed to be those at the Category level of detail, and in most cases, the divisions should be made at the Subcategory level. In other words, routes necessary for general access to blocks of space which would be inventoried within a single subcategory, or corridor spaces which separate areas falling into separate subcategories, should be measured as Circulation Area.

c) Single rooms or work areas, plus integral support areas which serve a single purpose, for example: a gymnasium; a block of book stacks; spectator seating areas; or accounts payable offices plus file areas; should not include any spaces within them as Circulation Area. It is general access to the area which is the determinant, not routine movements within those spaces. Once again, an interpretive judgement will often need to be made on this space type.

Age and Quality

The age or condition of space is not to be held as a consideration when reporting space in the classification scheme. While it is agreed that such considerations may have considerable impact on the efficiency or usability of facilities, it was felt that these effects lie outside the purposes of the space classification scheme. First, the definitions are intended to classify space as used or as available for use. Second, no satisfactory methodology has yet been devised by which to judge the quality of space. Third, it is almost certain that such a judgement would be at least partly predicated on the actual inventory of the facility. It is recognized that some square metres are not equivalent to others, but the means for making these assessments must be separate from those used to inventory and classify the spaces.

Hospital Facilities

The inventory of universities with programmes in the health sciences may include spaces which are used as hospitals or may house clinical staff usually located in hospitals. Much but not all of the funding for these facilities was provided under the Health Resources Development Plan and is often referred to as Z-formula space. While it is necessary that each university maintain an inventory of these facilities, no specific method of reporting has been iden-

tified in this report. Probably it is preferable that the universities inventory the clinical science spaces in each of the appropriate categories 1 though 15 for which the spaces meet the definitions and include a new category (20 say) for those health care areas for which no definition is included. (These would likely be patient bedrooms and bathrooms, nurses' stations, surgery, treatment rooms, waiting rooms, and service and supply areas.) In any event, the point to be emphasized here is that these facilities are not to be included in regular reporting to the extent that the corresponding input measures to the proposed space formula are not reported. The intent, of course, is to ensure correspondence of reporting and any of several methods of recording the spaces would be suitable. As is usual with iron-clad rules such as the one above however, there is one known exception. For convenience, the definition of FTE Undergraduates has been drawn up in such a way that it will include interns and residents. It is felt that the distortion of generated space is not serious.

SPACE CLASSIFICATION SCHEME

Section 2 - Definitions

1. CLASSROOM FACILITIES

Definition

A room generally used for scheduled teaching purposes, not requiring special equipment of a kind that makes the room unsuitable for classroom instruction, and rooms directly serving such facilities.

Subcategories

1.1 Tiered classrooms

Tiered or sloped-floored lecture theatres, lecture rooms, lecture demonstration rooms, and classrooms.

1.2 Non-tiered classrooms

Flat-floored lecture rooms, classrooms, seminar rooms, and tutorial rooms.

1.3 Classroom service space

Examination rooms, projection rooms, preparation rooms, closets, storage rooms and other related areas.

Room types excluded

Class laboratories - see category 2.

Assembly facilities - see category 15.

Conference rooms - see categories 4 and 10.

2. LABORATORY - UNDERGRADUATE

Definition

A room used for instruction requiring special-purpose equipment for undergraduate student participation, experimentation, observation, or practice in a field of study, and rooms directly serving these facilities.

Subcategories

2.1 Scheduled class laboratory space

Teaching laboratories, special subject rooms, instructional shops, typing laboratories, drafting rooms, art and music studios, music practice rooms, language laboratories, and other specially designed

rooms largely used for scheduled instruction, such as dental, rehabilitation, and psychology clinics.

2.2 Unscheduled class laboratory space

This subcategory may be optionally used to classify key-punch and terminal rooms, general workrooms, drafting rooms, and other special-purpose facilities generally used for informal or irregularly scheduled instruction, or for practice.

2.3 Laboratory (undergraduate) support

Preparation rooms, balance rooms, laboratory storage rooms, demonstration rooms, animal areas, greenhouses, dark rooms, etc. directly serving the laboratory facilities.

Room types excluded

Laboratory space for graduate students and faculty - see category 3.

Non-university clinic facilities for health science programmes in hospitals or other health care areas.

Clinic facilities for university health services - see category 13.

Athletic facilities - see category 6.

Service areas for these excluded room types.

Animal areas classified elsewhere - see categories 3 and 18.

Greenhouses classified elsewhere - see categories 3, 9 and 15.

3. LABORATORY - GRADUATE AND FACULTY

Definition

A room used for laboratory applications, research or training in research methodology which requires special-purpose equipment for staff or graduate student experimentation or observation, and rooms directly serving these facilities.

Subcategories

3.1 Laboratory space

Faculty, graduate, and general research facilities.

3.2 Laboratory (faculty and graduate) support space

Rooms directly serving one or more research facilities which directly provide the necessary support to the research functions such as balance rooms, coat rooms, storage areas, dark rooms, technicians' office/workrooms, workshops, animal areas, and greenhouses.

Room types excluded

Undergraduate laboratories and their support space - see category 2.

Animal areas classified elsewhere - see categories 2 and 18.

Greenhouses not in support of research - see categories 2, 9 and 15.

4. INSTRUCTIONAL OFFICES AND RELATED SPACE

Definition

A room usually assigned to one or more individuals on a permanent basis, containing office-type equipment and used by faculty, departmental administrative and support staff, and students, or a room directly serving these facilities.

Subcategories

4.1 Faculty offices

Single or multiple-occupancy offices for teaching and research faculty with rank up to and including department chairmen.

4.2 Departmental academic support staff offices

Office space used by post-doctoral fellows, research assistants, demonstrators, technicians, and other professional staff directly involved in support of teaching or research, not holding an academic appointment.

4.3 Student offices

Single or multiple-occupancy rooms assigned to graduate students for study and to graduate and undergraduate students in their capacity as tutors, teaching or research assistants.

4.4 Departmental support staff offices

Office space used by administrative, clerical, and secretarial support staff to academic departments.

4.5 Office support space

Rooms directly serving office space in this category such as conference rooms, special reference libraries, file rooms, vaults, duplicating rooms, waiting and reception areas, interview rooms, storage areas, private toilets, lunch rooms, and private departmental lounges.

Room types excluded

Student offices associated with extra-curricular student organizations - see category 14.

Graduate laboratory work stations - see category 3.

Technicians' offices/workrooms classified elsewhere - see categories 2, 3, 5, 11 and 12.

Offices for deans and directors of academic divisions and their support personnel - see category 10.

Offices for general university administration - see category 10.

Central duplicating and printing areas - see category 12.

Lounges intended for general use - see category 14.

All space under the administration of the university library system.

5. LIBRARY AND STUDY FACILITIES

Definition

A room or group of rooms used for the acquisition, storage, circulation, study, or use of books, periodicals, manuscripts, and other reading and reference materials generally under the administration of the university library system and accessible to the university population at large, and rooms directly serving these facilities.

Subcategories

5.1 Library collection space

Stack and storage areas for books, archives, maps, documents, records, tapes, slides, micromaterials, periodicals, and music scores.

5.2 Study space

Library reading rooms, study carrels, open-stack reading rooms and study areas available to the general university population. These could be located in residences, or in facilities administered by the university library system, or academic departments.

5.3 Library support areas

Office and related areas for library administration, catalogue area, circulation desk, processing areas, bookbinding and repair areas, acquisition and cataloguing work areas, and library staff lounges.

Room types excluded

Media storage for language laboratories - see category 2.

Media storage for audio-visual facilities - see category 11.

Media storage for recreational purposes - see category 14.

Study areas assigned to individuals for their exclusive use in areas not administered by the university library system - see category 4.

Special reference libraries not under the control of the university library administration - see categories 4, 11, 12 and 19.

Faculty and instructional areas associated with academic programmes in library science and teacher education - see categories 2 and 3.

6. RECREATION/ATHLETIC SPACE

Definition

All indoor areas used by students, staff, or the public for athletic activities, either for recreational or competitive purposes, and rooms directly serving these facilities.

Subcategories

6.1 Athletic activity areas

Gymnasia, dance studios, swimming pools, basketball, handball and squash courts, combatives rooms, ice rinks, indoor tracks, indoor rifle and archery ranges, and activity areas including those within field houses.

6.2 Athletic seating areas

All permanent seating and observation areas in gymnasia, swimming pools, field houses, ice rinks, and other indoor activity areas.

6.3 Athletic service space

All ancillary areas directly serving the above such as locker rooms, shower rooms, washrooms, coaches' rooms, equipment supply rooms, and rooms serving athletic facilities.

Room types excluded

Laboratories required to support programmes in Physical and Health Education - see categories 2 and 3.

Office and office-related space serving athletic facilities - see category 10.

Office and office-related space in support of programmes in Physical and Health Education - see category 4.

Indoor rifle ranges associated with military training - see category 19.

7. ROOM SERVICE

Definition

A room or group of rooms used for preparing or eating food or which directly serve these facilities including central facilities located in residences and faculty clubs.

Subcategories

7.1 Food Facilities

Dining rooms, cafeterias, snack bars, coffee shops, restaurants, vending machine and other refreshment areas.

7.2 Food facilities service

Kitchen, servery, all food preparation areas, dishwashing areas, refrigeration rooms, freezer, and kitchen storage, receiving, refuse areas and staff lunch, locker and private washrooms.

Room types excluded

Office and office-related space which support food service facilities - see category 10.

Refreshment booths in athletic facilities - see category 6.

Kitchen and dining areas located in private living quarters - see category 17.

8. BOOKSTORE AND OTHER MERCHANDISING FACILITIES

Definition

A room or group of rooms used to sell products or services, exclusively or primarily for the university population, and rooms directly serving these facilities.

Subcategory

8.1 Bookstore/Merchandising

Bookstores, Canada Post Office, barber shops, other stores, and associated service space operated by the university or a commercial enterprise renting space from the university.

Room types excluded

General-use food service facilities - see category 7.

Departmental and campus mail rooms - see categories 4, 10 and 12.

9. PLANT MAINTENANCE

Definition

Space associated with the operation and maintenance of university buildings, grounds, and other elements of the physical plant.

Subcategory

9.1 Plant maintenance

Shops and storage areas for carpentry, plumbing, painting, electrical and other trades, garages for maintenance vehicles and all grounds equipment, greenhouses and related areas.

Room types excluded

Janitorial facilities - see category 16.

Vocational, technical, and instructional shops in support of academic programmes - see categories 2 and 3.

Office and office-related space - see category 10.

Security-related areas - see category 10.

Central stores - see category 12.

Central utility plant - see category 16.

10. ADMINISTRATIVE OFFICE AND RELATED SPACE

Definition

A room usually assigned to one or more individuals on a permanent basis containing office-type equipment and used by administrative and support staff, or a room directly serving these facilities.

Subcategories

10.1 Office areas

Single or multiple-occupancy rooms for executives, administrative staff, deans and directors of academic divisions and their immediate support personnel.

10.2 Office support space

Rooms directly serving office space in this category such as conference rooms, special reference libraries, file rooms, vaults, duplicating rooms, waiting and reception areas, interview rooms, storage areas, private toilets, lunch rooms, and private departmental lounges.

Room types excluded

Office and office-related areas classified elsewhere - see categories 4, 5, 8, 13, 14 and 17.

Central mail, duplicating and printing areas - see category 12.

Lounges intended for general use - see category 14.

11. AUDIO-VISUAL/TELEVISION FACILITIES

Definition

A room or group of rooms used in the production, distribution, and storage of non-print instructional media, and rooms directly serving these facilities.

Subcategory

11.1 AV/TV facilities

Radio, TV, sound, photography, and graphic studios, film and tape libraries, control rooms, storage rooms, recording rooms, repair and servicing work rooms, dark rooms, preparation rooms, and similar related areas.

Room types excluded

Rooms used primarily in support of an academic programme - see category 2 and 3.

Offices and office-related space serving this category - see category 10.

Printing of instructional media - see category 12.

12. CENTRAL SERVICES

Definition

A room or group of rooms used to provide campus-wide services for both academic and non-academic sections of the university, and rooms directly serving these facilities.

Subcategories

12.1 Computing facilities

Central data processing facilities, computer rooms, key-punch areas, technical service and repair areas and their support spaces.

12.2 Other central services

Central and regional printing and duplicating shops, central receiving areas, central stores, university mail rooms, laundry and drying rooms located in a central laundry, and technical service and repair areas.

Room types excluded

Data processing facilities and related areas intended for the sole use of students or faculty of a single academic unit - see categories 2, 3 and 4.

Laundry and drying rooms classified elsewhere - see categories 6, 8, 17 and 19.

Office or office-related space serving these facilities - see category 10.

13. HEALTH SERVICE FACILITIES

Definition

A room or group of rooms intended to supply health services primarily to the general student population, and rooms directly serving these facilities.

Subcategory

13.1 Health service facilities

Student infirmaries, doctors' offices/examining rooms, their support areas, offices and related areas within health service facilities, and first-aid rooms located elsewhere.

Room types excluded

Laboratory clinics - see categories 2 and 3.

Recreation/Athletic first-aid rooms - see category 6.

Clinic facilities for health science programmes in hospitals or other health care areas - see category 19.

14. COMMON USE AND STUDENT ACTIVITY SPACE

Definition

A room or group of rooms accessible to the general university population intended for recreation, rest, or relaxation, or rooms directly serving these facilities.

Subcategories

14.1 Student offices and support space

Offices and support space for student government, publications, and clubs.

14.2 Recreational facilities and service

Bowling alleys, pool and billiard rooms, ping-pong rooms, ballrooms, chess rooms, card playing areas, music listening areas, hobby rooms, storage and equipment issue rooms.

14.3 Lounge and service space

All general lounge space and kitchenettes, whether for students, faculty, or administrative staff, and general use lounges in residences and faculty clubs, including related service space.

Room type excluded

Athletic facilities, wherever situated, such as gymnasia, pools, and basketball, handball, and squash courts - see category 6.

Lounge space classified elsewhere - see categories 4, 5, 10, 16 and 17.

Offices for administrative staff concerned with student affairs and services - see category 10.

15. ASSEMBLY AND EXHIBITION FACILITIES

Definition

A room or group of rooms intended to serve the general university population and to be used for dramatic, musical, or devotional activities or for exhibition purposes, and rooms directly serving these facilities.

Subcategories

15.1 Assembly facilities

Theatres, auditoria, concert halls, chapels, and convocation halls and ancillary areas such as checkrooms, coat rooms, ticket booths, concession booths, dressing rooms, projection rooms, storage and control rooms.

15.2 Exhibition facilities

Museums, art galleries, other exhibition areas, greenhouses used for display only and supporting areas.

Room types excluded

Areas for displaying collections intended primarily for instructional and research purposes - see categories 2 and 3.

Assembly facilities for the primary use of academic programmes - see category 2.

16. NON-ASSIGNABLE

Definition

A room or area that is not available for assignment to the occupants of a building but which is necessary for the general occupation or mechanical support of one or a number of buildings.

Subcategories

16.1 Central utility plant

Boiler rooms, refrigeration plant, electrical transformer stations, cooling towers, compressing stations, water treatment facilities, incinerator, and their support areas serving more than one building or the entire campus.

16.2 Other non-assignable areas

Areas used or occupied by janitorial staff, circulation spaces, mechanical and electrical spaces, an incinerator serving one building, public washrooms, and non-assignable unfinished space.

Room types excluded

Circulation aisles within office suites, auditoria, or work areas.

Special-purpose storage and maintenance rooms - see categories 9 and 17.

Custodial supervisors' offices - see category 10.

17. RESIDENTIAL SPACE

Definition

A room or rooms used to accommodate one or more individuals and the ancillary areas in direct support of such rooms.

Subcategories

17.1 Residence living space

Single or multiple-occupancy bedrooms, and all space within apartments.

17.2 Residence service space

Laundry rooms, recreational areas, music rooms, games rooms, locker rooms, special-use lounges adjacent to living quarters, tuck shops, and administrative office space in direct support of residences.

Room types excluded

General-use lounges and recreation areas - see category 14.

General-use library and study areas - see category 5.

Food service and merchandising facilities coded elsewhere - see categories 7 and 8.

18. ANIMAL SPACE

Definition

Animal facilities in overall support of teaching or research and not normally integrated with or under the control of academic departments.

Subcategories

18.1 Specialized central areas

Conditioning, rearing, and long-range animal holding areas, and rooms directly serving these facilities.

18.2 Farm-type areas

Barn structures, feed storage, and field service areas.

Room types excluded

Animal areas integrated with or under the control of academic departments and in direct support of teaching or research - see categories 2 and 3.

Specialized facilities within central animal areas which are in direct support of research such as operating suites - see category 3.

19. OTHER UNIVERSITY FACILITIES

Definition

Any room or area not included in categories 1 through 15.

Subcategories

19.1 Day care facilities.

19.2 Rifle ranges and other space in support of military training.

19.3 Merchandising facilities not exclusively or primarily serving the university population.

19.4 Demonstration schools, and other instructional institutions for non-university students.

SPACE CLASSIFICATION SCHEME

Section 3 - Glossary

TYPE OF SPACE	DEFINITION	CATEGORY
Animal Space	1. Rearing, conditioning, and holding facilities before animals are ready or required for teaching and research purposes, located either on or off campus.	18
	2. Facilities for long-term holding and care of animals following surgical or other investigative treatment, located either on or off campus.	18
	3. Short-term holding and care of animals either before or following surgical or other investigative treatment, located on campus and closely related to academic departments.	
	- in support of teaching	2
	- in support of research	3
	4. Animal operating suites either for the use of one or several academic departments, located either on or off campus.	3
Coatrooms	see Lockers	
Computing Facilities	1. Centrally located and providing campus-wide services to both academic and non-academic sections of the university.	12
	2. Located in space of an academic division for its convenience, in support of instruction, or research, or both, but available also for general use by all sections of the university.	12
	3. Located in space of an academic division and fully used by that division for combinations of instruction, research, and administration.	12
	4. Located in space of an academic division for a specific use by that division as for example:	
	- for scheduled instruction in the use of computer equipment	2
	- for service to research by departments of the division	3

TYPE OF SPACE	DEFINITION	CATEGORY
Demonstration Schools	1. Facilities generally integrated with university facilities, in which children receive regular school instruction and are available for practice teaching and observation.	19
Examination Rooms	1. Space used exclusively or primarily for examination purposes throughout the academic year.	1
	2. Space used only occasionally for examination purposes as for end-of-term examinations, the primary use of which is for other purposes, classified in the category of its primary use as for example:	
	- an arena or gymnasium used for final examinations	6
	- a meeting or assembly hall used for final examinations	15
Greenhouses	1. Primarily in support of undergraduate instruction	2
	2. Primarily in support of graduate instruction and research	3
	3. Primarily in support of university grounds keeping	9
	4. Primarily for exhibition and display purposes	15
	5. For farm use	18
Inactive Space	1. Space available for occupancy but not assigned at the time of the survey	19.5
	2. Space not available for occupancy which was left unfinished at the time of construction	16.3
	3. Single rooms or small groups of rooms not available for occupancy due to repairs, renovations, or remodelling to be reported in the category of its intended <u>future</u> use	19.5

TYPE OF SPACE		DEFINITION	CATEGORY
	4.	Buildings under construction are not to be reported	
Kitchenette	1.	For an academic department	4
	2.	For an administrative department	10
	3.	For general lounge service	14
Class Laboratories	1.	Primarily used for scheduled instruction, classified as Scheduled Class Laboratory Space	2
	2.	Used in an unknown fashion or intended for scheduled use but just not used at the time of reporting, classified as Scheduled Class Laboratory space	2
	3.	Primarily used for informal or irregularly scheduled instruction, and for practice, classified as Unscheduled Class Laboratory Space	2
Lockers	1.	In support of a particular room, classified in the category of the space it supports, as for example:	
		- for a classroom	1
		- for a teaching laboratory	2
		- for a cafeteria	7
	2.	For the general use of the students in a building	14
	3.	Lockers in corridors	16
Lounges	1.	For the private use of an academic department	4
	2.	For the private use of library staff	5
	3.	For the private use of a department in central administration	10
	4.	For the general use of students or staff or both regardless of where located	14
	5.	For general use in residences	14

TYPE OF SPACE	DEFINITION	CATEGORY
	6. For the private use of occupants of residences	17
Lunch, Locker and Change Rooms	1. In support of a particular kind of space to be classified in the category of the space it supports, for example:	
	- for physical education	6
	- for a bowling alley	14
	- for a research lab	3
	2. Provided for the exclusive use of people as necessary in the performance of their jobs, to be classified as the characteristic kind of space for that department, for example:	
	- for food service staff	7
	- for security patrolmen	10
	- for maintenance personnel	9
	- for custodial staff	9
Mail Rooms	1. A central facility for sorting and distributing mail for the campus	12
	2. Canada Post Office	8
	3. A room for sorting and distributing mail for:	
	- academic departments	4
	- central library	5
	- service departments and central administration	10
Media Storage (Recorded Music)	See Music Scores Storage and Tape Storage	
Merchandising	1. Products or services provided by the university or a commercial enterprise renting space from the university	
	- exclusively or primarily for the university population as for example a textbook store	8

TYPE OF SPACE		DEFINITION	CATEGORY
		- exclusively or primarily to the non-university community as for example a bank, public office, or commercial building	19
Music Practice Rooms		See Language Laboratories	
Music Scores Storage	1.	For music studios or practice rooms as part of instruction in music	2
	2.	For instruction or research, and located in libraries	5
	3.	For music listening and recreation, and available to the university population at large, not in the central library	14
	4.	For the exclusive use of occupants of residences	17
Offices	1.	For faculty, post-doctoral fellows, graduate students, and departmental support staff	4
	2.	For the most senior academic administrator in a major division of the university, usually called a dean or director, and their immediate support personnel	10
	3.	For academic heads of single academic departments or small groups of closely related programmes, usually called a chairman or department head but sometimes called a dean or director, especially of a school	4
	4.	For shared support personnel between the above two categories	4
	5.	For library staff	5
	6.	For central administrative staff	10
	7.	For managers and administrative staff or merchandising operations providing services exclusively or primarily for the university population	8
	8.	For recreation/athletic staff	10
	9.	For food service staff	10

TYPE OF SPACE		DEFINITION	CATEGORY
	10.	For maintenance staff	10
	11.	For custodial supervisors	10
	12.	For AV-TV staff	10
	13.	For central services staff	10
	14.	For medical doctors, nurses, and administrative staff engaged in providing health care to students	13
	15.	For student clubs or student government	14
	16	For technicians - see Technicians' Space	
		For research associates - see Research Assistants' Space	
Research Assistants Space		Space primarily used as work rooms rather than offices, classified as research support space	3
		Space containing only office-type equipment, assigned to individuals, classified as departmental office space	4
Special Reference Libraries	1.	Reference libraries and reading rooms, not under the administration of the central library system, usually containing specialized or selected materials or special study facilities classified as part of the space they occupy as for example:	
		- in an academic department	4
		- in computer facilities	12
		- in residences	17
Special Subject Rooms	1.	For scheduled instruction in non-laboratory oriented subjects for which the space per station is larger than for a normal classroom to accommodate special arrangement of stations or equipment as for example in faculties of Education and Law	2
Stores and Storage	1.	Central receiving and storing of equipment, materials, and supplies for university-wide use	12

TYPE OF SPACE	DEFINITION	CATEGORY
	2. Storage areas within individual departments, classified in the category of the space they support as for example:	
	- classroom storage	1
	- department office supplies storage	4
	- building and grounds maintenance storage	9
	- residence storage	17
Study Space	1. Library study space for general or assigned use, under the administration of the university library system	5
	2. Departmental study space for general or assigned use, forming part of the study space of the central library system	5
	3. Departmental study space for general or individual use, but restricted to individuals associated with the department	4
	4. Other departmental study space for undergraduate students in support of laboratory instruction	2
	5. Study space in residences for the exclusive use of the residents and not part of departmental or university library space	17
Tape Storage	1. In direct support of teaching	2
	2. In libraries	5
	3. In support of AV-TV	11
	4. Computer tape storage	12
Technicians' Space	1. Space which may contain a desk but is primarily used as a work room rather than an office, classified in the category of space it supports, as for example:	
	- for teaching laboratories technicians	2
	- for research technicians	3

TYPE OF SPACE	DEFINITION	CATEGORY
	- for AV-TV technicians	11
	- for technicians in central services	12
	2. Space containing only office-type equipment, classified in the category of the office space of the department in which the technician works, as for example:	
	- in teaching laboratories	4
	- in research laboratories	4
	- in AV-TV	10
	- in central services	10
Unassigned or Unfinished Space	See Inactive Space	
Unscheduled Class Labs	See Class Laboratories	
Z-formula space	A special problem of identification may be present for universities with programmes in the Health Sciences. University space that is used to house hospital services or clinical departments usually located in hospitals is not covered by the capital formula. Entitlement for most if not all of this space is generated under the Z formula. However, it will need to be recorded and identified in university space records so that, upon request, it can be reported to MCU. It may need to be reported at a level of detail that will identify:	
	- the category of assignable space	
	- the use type within the category	
	- the clinical department holding the space, and	
	- the hospital affiliation of the academic staff within the clinical department holding the space	

TYPE OF SPACE	DEFINITION	CATEGORY

A university may choose to develop its own method of identifying this space within its space records, or it may elect to use one of the following methods:

1. A separate category may be created into which all such space is allocated

2. All such space may be allocated to the appropriate category of assignable space (categories 1 through 15), identified in such a way that it can be extracted and reported upon request, for example, by department or source of funds.

APPENDIX B

DEFINITION OF INPUT MEASURES

Definition of Input Measures

The following definitions identify four major groups of input measures that are useful in determining the space requirements of an institution. The names of the input measures may be readily recognized as being in common university use, but are not always valid for inter-institutional comparison unless detailed descriptions of the terms and, in some cases, the possible end uses are specified. These descriptions have been drawn up in the interests of inter-institutional comparability in response to requests for more exact definitions.

INPUT MEASURES

1.0 F.T.E. Students

1.1 F.T.E. Undergraduates

1.2 F.T.E. Graduates

In order to eliminate as many uncertainties as possible, it is proposed to adopt the definitions for student enrolment which are contained in the Operating Formula Manual published by the Ministry of Colleges and Universities. Accordingly, it is expected that the number of FTE students will generally be consistent with the number reported on the Ministry's UAR 1 forms submitted by universities in December. An exception to this general rule will arise in the case of universities who do not distinguish enrolment of affiliated institutions on separate UAR 1 forms. Such enrolment should be excluded where the related space is not included in a university's inventory.

For universities providing teaching services to affiliated church colleges, the enrolment is to be determined after allowing for the net services provided. For this purpose the fiscal full-time equivalency rules are to be applied to the course registrations of the students receiving instruction both from the university and from the affiliated college (in the case of a university student receiving some portion of his academic programme from the affiliated college).

The number of FTE students reported will be the sum of:

1) eligible fall term FFTE undergraduates x 2;

2) eligible and ineligible fall full-time graduates;

3) the full-time equivalency of eligible and ineligible fall part-time graduates;

4) such adjustments as may be required because of affiliated institutions.

The inclusion of ineligible graduates is intended to include those students who are making substantial demands on the university facilities, but for whom operating funds are not provided or for whom course durations have expired.

Universities operating trimester programmes would normally be expected to report the fall term enrolment only. In a case in which this was seen to be not representative, the university may choose to report a simple average of the fall and winter terms. In no case should the university use the three terms divided by two calculation as a basis for reporting.

2.0 Weekly Student Contact Hours

2.1 Laboratory

2.2 Non-Laboratory

The weekly student contact hours of a university are defined to be equal to the sum of the weekly student contact hours of all courses which are offered by the university as part of a programme of studies leading to a degree or diploma. The weekly student contact hours of a course are the product of the course enrolment and the hours of scheduled instruction received by each enrolled student during the reporting week. The course enrolment is the number of students participating in the instructional activities of the course. The hours of scheduled instruction are generally indicated in the course description contained in the university calendar or may be separately captured as data on a course file. The reporting week of a university is to be any representative week of the Fall term, which should generally correspond with the student enrolment as of November 1.

Laboratory weekly student contact hours are those weekly student contact hours of courses or portions of courses in which the instructional activity is facilitated by demonstration or experimentation requiring additional equipment not ordinarily available in classrooms. This would normally include courses requiring the use of language laboratories, the subject classrooms of faculties of education and art and other studios, as well as the traditional engineering, physical and biological science laboratories. Non-laboratory student contact hours are all weekly student contact hours as described above, other than laboratory weekly student contact hours.

3.0 F.T.E. Faculty

The faculty of a university is defined to include all persons up to and including department heads or chairmen holding an academic appointment, who receive remuneration from the university in return for conducting the instructional or research activities in part or in whole of courses offered by the university as part of a programme of studies leading to a degree or diploma.

The term academic appointment will normally be limited to those persons who are in or above that rank which immediately below that of Assistant Professor, as consistent with Statistics Canada reporting.

Included are visiting appointments and faculty on Sabbatical or Study Leave.

Excluded are Post Doctoral Fellows, clinical staff with full- or (the part-time portion of) part-time hospital appointments and faculty on unpaid leaves of absence, deans of major schools or academic divisions, vice-presidents and presidents.

The university may designate each member of faculty as full-time or part-time, but such designation should be made in association with consideration of the expected contribution of the member's time required to fulfil his assigned responsibilities. The full-time equivalent of part-time faculty is derived by dividing the total salary paid to part-time faculty by the average salary of all university full-time faculty.

4.0 Library Collections (Equivalent Volumes)

The library materials identified in the university library catalogue and contained in the following tables are to be included at the stated volume equivalency rate.

Material	Items	Equivalency
For Material Stored On Horizontal Storage Units		
Volumes - excluding reference	125	125
Computer tapes	125	125
Documents, pamphlets, archives	1,000 (items)	125
Microfilm - boxed on shelves	400 (reels)	125
Microfiche - boxed on shelves	10,000	125
Newspapers - current titles on display	7 (titles)	125
Periodicals - unbound titles on display	9 (titles)	125
Periodicals - boxed current year	30 (titles)	125
Periodicals - boxed back files	Included in volume count	
Phonodiscs - records	500	125
- tapes	500	125
- cassettes	1,000	125
Reference	45 (volumes)	125
Atlases	45	125
Slides - carousel boxes	75 (carousels)	125
Films	125 (films)	125
Filmstrips (boxed)	2,250 (strips)	125
For Material in Vertical Storage Units		
Maps	105	125
Microfilm (reels)	315	125
Micro-cards, fiche, etc.	7,900	125
Pamphlets	790 (pamphlets)	125
Slides (in cases)		
- bound	2,560 (slides)	125
- unbound	5,120 (slides)	125
Filmstrips	580 (strips)	125
Mounted Photos	790 (photos)	125

APPENDIX C

COU SPACE GUIDELINES

C.O.U. SPACE GUIDELINES

1.	Classrooms	1.208 s.m./F.T.E. student	
2.	Classlabs - Group W*	.79 s.m./weekly lab contact hour	
	" X	.604 s.m./ " " " "	
	" Y	.465 s.m./ " " " "	
	" Z	.279 s.m./ " " " "	
3.	Research - Group A*	46.468 s.m./Researcher (i.e. FTE Faculty + F1/2 Grads.)	
	" B	32.528 s.m./ "	
	" C	18.587 s.m./ "	
	" D	6.970 s.m./ "	
	" E	0 s.m./ "	
4.	Academic Office	19.517 s.m./F.T.E. Faculty	
		3.717 s.m./F.T.E. Grads	
5.	Library - Stack	.007 s.m./Equiv. Vol. for 0-300,000 Vols.	
		.007 s.m./ " " " 300,000-600,000	
		.006 s.m./ " " " all other Vols.	
	- Study	0.465 s.m./F.T.E. Undergraduate	
		1.115 s.m./ " " (in Professional Programmes)*	
		0.743 s.m./ " Graduate	
	- Service	0.25 x (Stack + Study)	
6.	Athletics	1,858.74 s.m. + 0.743 s.m./F.T.E. student	
7.	General Use (Food Services, Bookstore, Commons, Assembly and Exhib.)	1.626 s.m./F.T.E. student	
8.	Special Use (A/V, Health Service, Maint., Computer, Stores.)	0.558 s.m./F.T.E student	
9.	Administrative Office	0.836 s.m./F.T.E. student	

*See Programme Classification Scheme attached

Programme Classification Scheme

The proposed space formula makes use of programme or discipline groupings in the generation of Class Labs, Research and Library space. The programme groups were developed originally from those listed in Appendix D of Volume 1 of Building Blocks. The programmes have been classified at the "second level" of detail as listed in that publication and it may be taken that these second levels are inclusive of the detailed programme names listed at the "third level".

The list of professional programmes used in the generation of library facilities are those of the Operating Grants formula.

Programme Related Space Factors

Programme/Discipline	Class Lab Factor	Class Lab Group	Research Factor	Research Group	Professional Programme
Education					
Physical and Health Education and Recreation	.279	Z	6.970	D	
Other Education	.465	Y	0	E	YES (except 4 year concurrent)
Fine & Applied Arts					
Theory, Ceramics, Drama, Theatre, Engraving, Industrial Design, Interior Design, Lithography, Music, Painting, Art, Printing, Sculpture	.604	X	0	E	
Humanities & Related					
Classics, Classical and Dead Languages, Creative Writing, History, Mass Media Studies, Modern and Mediaeval Languages and Literature, Philosophy, Religious Studies, Translation and Interpretation	.279	Z	0	E	
Library and Records Science	.279	Z	6.970	D	YES
Social Sciences & Related					
Anthropology, Archaeology, Geography, Man/Environment Studies	.465	Y	6.970	D	
Area Studies, Commerce, Business Administration, Economics, Political Science, Sociology, Military Studies, Linguistics	.279	Z	0	E	
Law, Social Work	.279	Z	0	E	YES
Psychology	.465	Y	18.587	C	

Programme/Discipline	Class Lab Factor	Group	Research Factor	Group	Professional Programme
Agriculture & Biological Science					
Agriculture	.79	W	46.468	A	
Biochemistry, Biology, Biophysics, Botany, Zoology	.465	Y	46.468	A	
Household Science & Related	.465	Y	6.970	D	
Veterinary Medicine and Sciences	.79	W	46.468	A	YES
Engineering & Applied Sciences					
Architecture, Landscape Architecture	.604	X	0	E	
Engineering, Engineering Science	.79	W	32,528	B	
Forestry	.79	W	32,528	B	
Health Professions and Occupations					
Medicine	.604	X	46.468	A	YES
Dentistry, Optometry	.604	X	32.528	B	YES
Dental Hygiene, Medical Technology, Pharmacy, Public Health	.604	X	32.528	B	
Nursing	.279	Z	0	E	
Rehabilitation Medicine Art as Applied to Medicine	.604	X	0	E	
Clinical Science Depts.*	0	-	0	E	
Mathematics and Physical Sciences					
Actuarial Science, Applied Mathematics (except Computer Science), Mathematical Statistics, Mathematics	.279	Z	0	E	

Programme/Discipline	Class Lab Factor	Class Lab Group	Research Factor	Research Group	Professional Programme
Mathematics and Physical Sciences (cont'd)					
Computer Science	.279	Z	0	E	
Chemistry, Geology and related, Metallurgy, material Science, Meteorology, Oceonography, Physics	.604	X	46.83	A	

*Do not report corresponding inventory